Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

summary of all product catalogues

2026

for further information please use the following product catalogues:

- **Food and Feed**
- **Consumer goods and packaging**
- **Material testing**
- **Medical devices**
- **Environmental analytics**

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(Änderungen vorbehalten)

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

chemical-physical

organoleptic

immunological, molecular biological & microbiological

Food and Feed

product catalogue 2026



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DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 1100 PT's per year

Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

Accredited PT-provider

Accreditation DIN EN ISO/IEC 17043:2023 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2023. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-PP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

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Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Food industry

The DRRR offers in the field of the quality assurance for the chemical analysis a variety of different primary, intermediate and final products for the food and packaging industry.

The laboratories can secure their analytics with the DRRR services as well as main parameters like fat, protein and dry matter and side and trace parameters.

- **Milk and milk products**
- **Fruit and fruit juices**
- **Sweets and pastries**
- **Food of animal origin**
- **Meat and egg products**
- **Animal feed**
- **Oil and oilseeds**

Safety parameters and adulterants

For the quality assurance in the field the chemical analysis of safety parameters and adulterants the DRRR offers a variety of different parameter-matrix-combinations.

- **Mycotoxins**
- **Residues (e.g. pesticides)**
- **Allergens**
- **Contaminants (e.g. PAH, heavy metals, PFAS)**

Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

Market-leading statistical evaluation

Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

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Individual Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

Benefit from our high quality standards in all important fields of testing.

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

Get in touch with us.

We look forward to working with you!

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Milk and cream				Login or register
2010007	**UHT milk 1**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], density [g/ml] (all quantitative)	Apr-26	
2010366	**UHT milk 2**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], density [g/ml], aw value [-] (all quantitative)	Sep-26	
2010107	**UHT milk (lactose free)**	☐	lactose (monohydrate) - enzymatic [g/100g], lactose (monohydrate) - chromatographic [g/100g] (all quantitative)	May-26	
2010015	**Raw milk 1**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], pH value [-], casein [g/100g] (all quantitative)	Jan-26	
2010005	**Raw milk 2**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], pH value [-], casein [g/100g] (all quantitative)	Jun-26	
2010370	**Raw milk 3**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], casein [g/100g] (all quantitative)	Oct-26	
2010003	**Raw cream 1**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g] (all quantitative)	Feb-26	
2010374	**Raw cream 2**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g] (all quantitative)	Jul-26	
2010041	**Evaporated milk**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], ash [g/100g], phosphorus (P) [mg/100g] (all quantitative)	Jul-26	
2010624	**Buttermilk**	☐	phosphatides (calculated as lecithin) [mg/100g], fat [g/100g], dry matter [g/100g], ash [g/100g], pH value [-], acidity acc. Soxhlet-Henkel [SH], density in heat serum [g/ml] (all quantitative)	Apr-26	
2010702	**Dairy drinks**	☐	fat [g/100g], crude protein (N x 6,38) [g/100g], dry matter [g/100g], sucrose (anhydrous) [g/100g], glucose (anhydrous) [g/100g], lactose (monohydrate) [g/100g], fructose (anhydrous) [g/100g], total sugar (anhydrous) [g/100g] (all quantitative)	Dec-26	
2011117	**Pesticides in raw milk**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-26	
	Milk products (other)				
2010852	**Whey concentrate**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], ash [g/100g] (all quantitative)	Jul-26	
2010009	**Butter**	☐	solids non fat [g/100g], moisture content [g/100g], hardness [N], chloride [mg/100g], cholesterol [mg/100g], pH value [-] (all quantitative)	Sep-26	
2010382	**Butter (fatty acid profile)**	☐	butyric acid [% / fat], caproic acid [% / fat], caprylic acid [% / fat], capric acid [% / fat], lauric acid [% / fat], myristic acid [% / fat], myristoleic acid [% / fat], myristelaidic acid [% / fat], palmicit acid [% / fat], palmitoleic acid [% / fat], palmitelaidic acid [% / fat], stearic acid [% / fat], linoleic acid [% / fat], linolenic acid [% / fat], gamma linolenic acid [% / fat], eicosatrienoic acid [% / fat], eicosatetraenoic acid [% / fat], eicosapentaenoic acid [% / fat] (all quantitative)	Sep-26	
2010017	**Yoghurt**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], pH value [-], total lactic acid [mg/100g] (all quantitative)	Nov-26	
2010087	**Pudding - dessert**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], pH value [-] (all quantitative)	Nov-26	
2010091	**AMF anhydrous milk fat**	☐	water content [g/100g], free fatty acids [g/100g], total β-carotene [mg/kg], butyric acid methyl ester [g/100g] (all quantitative)	Apr-26	
2010453	**Protein powder - amino acid profile**	☐	alanine (Ala) [g/100 g proteine], arginine (Arg) [g/100 g proteine], asparagine (Asn) [g/100 g proteine], aspartate (Asp) [g/100 g proteine], cysteine (Cys) [g/100 g proteine], glutamine (Gln) [g/100 g proteine], glutamate (Glu) [g/100 g proteine], glycine (Gly) [g/100 g proteine], histidine (His) [g/100 g proteine], isoleucine (Ile) [g/100 g proteine], leucine (Leu) [g/100 g proteine], lysine (Lys) [g/100 g proteine], methionine (Met) [g/100 g proteine], phenylalanine (Phe) [g/100 g proteine], proline (Pro) [g/100 g proteine], serine (Ser) [g/100 g proteine], Threonine (Thr) [g/100 g proteine], tryptophan (Trp) [g/100 g proteine], tyrosine (Tyr) [g/100 g proteine], valine (Val) [g/100 g proteine] (all quantitative)	Jun-26	
	Ice-cream				
3010012	**Ice cream (base mix)**	☐	total fat [g/100 g] (quant.), milk fat [g/100 g] (quant.), colouring agent cochenille red A [mg/kg] (quant.), lactose (monohydrate) [g/100 g] (quant.), vanillin [mg/kg] (quant.), vanillin acid [mg/kg] (quant.), p-hydroxybenzaldehyde [mg/kg] (quant.), p-hydroxybenzoic acid [mg/kg] (quant.), colouring agent curcumin [pos./neg.] (qual.), colouring agent β-carotene [pos./neg.] (qual.), colouring agent cochenille red A qual. [pos./neg.] (qual.), foreign fat (added fat) [pos./neg.] (qual.)	Sep-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Cheese				Login or register
2010378	**Processed cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g], pH value [-], sodium chloride [g/100g], nitrate [mg/kg], citric acid (monydrate) [mg/100g], phosphorus [mg/100g], ash [g/100g], lactose (monohydrate) [g/100g] (all quantitative)	Sep-26	
2010029	**Fresh cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g] (all quantitative)	Apr-26	
2010164	**Curd**	☐	fat [g/100g], dry matter [g/100g], protein ((N x 6,38) [g/100g], total lactic acid [mg/100g] (all quantitative)	Oct-26	
2010047	**Semi hard cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], nitrate [mg/kg] (all quantitative)	May-26	
2010031	**Hard cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g] (all quantitative)	Apr-26	
2010037	**Soft cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], pH value [-] (all quantitative)	May-26	
	Milk powder				
2010027	**Whole milk powder**	☐	fat [g/100 g], free fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [-] (all quantitative)	Apr-26	
2010001	**Skimmed milk powder**	☐	fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [-] (all quantitative)	Sep-26	
2010123	**Milk powder (lactose reduced)**	☐	lactose (monohydrate) - chromatographic [g/100 g], lactose (monohydrate) - enzymatic [g/100 g], moisture content [g/100 g] (all quantitative)	Dec-26	
2010113	**Milk powder nitrate - nitrite**	☐	nitrate [mg/kg], nitrite [mg/kg] (all quantitative)	Aug-26	
2010023	**Whey powder**	☐	fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], ash [g/100 g], lactose (monohydrate) [g/100 g], titratable acid [g/100 g], pH value [-] (all quantitative)	Mar-26	
2010245	**Mineral oil in cheese and milk powder**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	May-26	
	Egg products				
2010056	**Egg products**	☐	total lipids [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], pH value [-], cholesterol [mg/100 g], α-linolenic acid methyl ester [g/100 g total fatty acid methyl ester], eicosapentaenoic acid methyl ester [g/100 g total fatty acid methyl ester], docosahexaenoic acid methyl ester [g/100 g total fatty acid methyl ester], sodium chloride [g/100 g] (all quantitative)	Dec-26	
2010413	**Egg pasta**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], cholesterol [mg/100 g], total sterols [mg/100 g], egg content [g/100 g], fibre [g/100 g] (all quantitative)	Dec-26	
2010415	**Mayonnaise**	☐	total acid (pH 8.1) calculated as acetic acid [g/100 g], dry matter [g/100 g], total fat [g/100 g], cholesterol [mg/100 g], egg yolk content [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sodium chloride [g/100 g], pH value [-] (all quantitative)	Apr-26	
2010155	**Egg powder**	☐	total lipids [g/100 g], ash [g/100 g], pH value [-], dry matter [g/100 g], sodium chloride [g/100 g], L-lactic acid [mg/kg], D-3-hydroxybutyric acid [mg/kg], crude protein (N x 6,25) [g/100 g] (all quantitative)	Nov-26	
2010129	**Residues in liquid egg**	☐	total fat [g/100 g], polychlorinated dibenzodioxins (PCDD) [pg/g fat], polychlorinated dibenzofuran (PCDF) [pg/g fat], total PCBs [pg/g fat] (all quantitative)	Dec-26	
2011120	**Nicotine in liquid egg**	☐	nicotine (CAS 54-11-5) [µg/kg], cotinine (CAS 486-56-6) [µg/kg] (all quantitative)	May-26	
2011128	**PFAS in liquid egg**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Aug-26	

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Fruit & vegetables products - NEW!				Login or register
2011366	**Glutamic acid in tomato paste**	☐	L-glutamic acid [mg/kg] (all quantitative)	Nov-26	
2011367	**Element determination in the ultra-trace range**	☐	aluminium (Al) [µg/kg], barium (Ba) [µg/kg], cerium (Ce) [µg/kg], chromium (Cr) [µg/kg], copper (Cu) [µg/kg], dysprosium (Dy) [µg/kg], gadolinium (Gd) [µg/kg], lanthanum (La) [µg/kg], manganese (Mn) [µg/kg], molybdenum (Mo) [µg/kg], nickel (Ni) [µg/kg], neodymium (Nd) [µg/kg], lead (Pb) [µg/kg], praseodymium (Pr) [µg/kg], selenium (Se) [µg/kg], tin (Sn) [µg/kg], uranium (U) [µg/kg], vanadium (V) [µg/kg], ytterbium (Yb) [µg/kg], zinc (Zn) [µg/kg] (all quantitative)	Nov-26	
	Fruit & vegetables products				
2011282	**Bisphenols in tomato products**	☐	bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg], bisphenol AF (CAS 1478-61-1) [µg/kg] (all quantitative)	Jul-26	
2011285	**PFAS in vegetables**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Jun-26	
2010051	**Sugar mix (fruit preparation)**	☐	sucrose (anhydrous) [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], starch [g/100 g], aspartame [ppm], acesulfam K [ppm], sorbate (as anion) [ppm], saccharin as free imide [ppm], total sugar (anhydrous) [g/100 g] (all quantitative)	Jul-26	
2010053	**Fruit preparation**	☐	brix value [°brix], pH value [-], total acid (pH 8.1) calculated as citric acid (anhydrous) [g/kg], L-malic acid [g/kg], ash [g/kg], phosphorus (P) [g/kg], potassium (K) [mg/100 g] (all quantitative)	Sep-26	
2010384	**Sauerkraut**	☐	total ascorbic acid (vitamin C) [mg/100 mL], total acid (pH 8.2) calculated as acetic acid [g/100 mL], non volatile acid (pH 8.2) calculated as acetic acid [g/100 mL], total lactic acid [mg/100 mL], pH value [-], sodium chloride [g/100 mL] (all quantitative)	Dec-26	
2010386	**Dried fruits**	☐	sulphur dioxide (SO2) [mg/kg], moisture content [g/100 g], total fat [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-26	
2010388	**Dry potato product**	☐	moisture content [g/100 g], total fat [g/100 g], saturated fatty acids [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], carbohydrates [g/100 g], starch [g/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g], sodium (Na) [g/100 g] (all quantitative)	Dec-26	
2010390	**Tomato ketchup**	☐	pH value [-], total acid (pH 8.1) calculated as acetic acid [g/100 g], citric acid (anhydrous) [g/100 g], sodium chloride [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], soluble solids [g/100 g], dry matter [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g] (all quantitative)	Jul-26	
2010704	**Hot sauce**	☐	capsaicin [ppm], dihydrocapsaicin [ppm], nordihydrocapsaicin [ppm], total capsaicinoids [ppm] (all quantitative)	Dec-26	
2011086	**Vegetable chips**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	May-26	
2011088	**Pesticides in fruiting vegetables**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-26	
2011089	**Pesticides in pome fruit**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-26	
2011093	**Alternaria toxins in tomato products**	☐	alternariol (AOH) (CAS 641-38-3) [µg/kg], alternariol monomethyl ether (AME) (CAS 23452-05-3) [µg/kg], tenuazonic acid (TEA) (CAS 610-88-8) [µg/kg], tentoxin (TEN) (CAS 28540-82-1) [µg/kg] (all quantitative)	Nov-26	
2011097	**Acrylamide in potato products**	☐	acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	Dec-26	
2011111	**Pesticides in citrus fruit**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Vegan und vegetarian substitutes				Login or register
2010165	**Plant drink (milk alternative)**	☐	fat [g/100 g], dry matter [g/100 g], crude protein (N x 6,38) [g/100 g], freezing point [m°C], density [g/ml] (all quantitative)	Nov-26	
2010502	**Quinolizidine alkaloids in Lupins Drink**	☐	lupinine (CAS 486-70-4) [mg/kg], cytisine (CAS 485-35-8) [mg/kg], sparteine (CAS 90-39-1) [mg/kg] (all quantitative)	Dec-26	
2010712	**Vegetarian sausage substitute**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], fibre [g/100 g], pH value [-] (all quantitative)	May-26	
2010343	**Vegetarian bread spread**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], pH value [-] (all quantitative)	Dec-26	
	Meat products - NEW!				
2011365	**Histological examination of meat and sausage**	☐	qualitative evidence of tissues and other components (all qualitative)	Jun-26	
	Meat products				
2011056	**Cooked sausage**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], pH value [-], aw value [-], hydroxyproline [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], starch [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], L-glutamic acid [mg/kg] (all quantitative)	Nov-26	
2010019	**Boiled sausage 1**	☐	total fat [g/100 g], moisture content [g/100 g], ash [g/100 g], crude protein (N x 6,25) [g/100 g], hydroxyproline [g/100 g], sodium chloride [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], diphosphorus pentoxide (P2O5) [g/100 g], calcium (Ca) [mg/kg], aw value [-], starch [g/100 g] (all quantitative)	Feb-26	
2010204	**Boiled sausage 2**	☐	non-protein nitrogen (NPN) x 6.25 [g/100 g], collagen decomposition products [g/100 g], L-glutamic acid [mg/kg], citric acid (anhydrous) [mg/kg], sodium acetate [mg/kg], L-lactate [mg/kg], sodium nitrate [mg/kg], sodium nitrite [mg/kg], total ascorbic acid (vitamin C) [mg/100 g], pH value [-] (all quantitative)	Sep-26	
2010214	**Raw sausage 1**	☐	aw value [-], pH value [-], D-lactic acid [mg/kg], L-lactic acid [mg/kg], sodium (Na) [mg/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], sorbic acid [mg/kg], saturated fatty acids [g/100 g Fett (fat)], monounsaturated fatty acids [g/100 g Fett (fat)], total fat [g/100 g] (all quantitative)	Jun-26	
2010419	**Raw sausage 2**	☐	sodium (Na) [mg/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], hydroxyproline [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], starch [g/100 g], solubilised milk protein [g/100 g] (all quantitative)	Jun-26	
2011284	**PFAS in meat**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Dec-26	
	Fish and seafood				
2010421	**Fish paste 1**	☐	moisture content [g/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], sodium chloride [g/100 g], arsenic (As) [µg/100 g], iodine (I) [µg/100 g] (all quantitative)	Dec-26	
2010423	**Fish paste 2**	☐	total fat [g/100 g], sorbic acid [mg/100 g], benzoic acid [mg/100 g], saccharin as free imide [mg/100 g], cyclamate [mg/100 g], citric acid (anhydrous) [mg/100 g] (all quantitative)	Dec-26	
2011116	**Pesticides in fish, seafood**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-26	
2011125	**PFAS in fish**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg] (all quantitative)	Apr-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Nonalcoholic beverages - NEW!				Login or register
2011364	**Fruit juice**	☐	brix value [°brix], relative density (20 °C/20 °C) [-], pH value [-], total acid (pH 8.1) calculated as citric acid (anhydrous) [g/l], glucose (anhydrous) [g/l], fructose (anhydrous) [g/l], sucrose (anhydrous) [g/l], L-malic acid [g/l], L-ascorbic acid [mg/l], total lactic acid [mg/l], formol number [ml 0.1 N NaOH/100ml] (all quantitative)	Nov-26	
	Nonalcoholic beverages				
2010392	**Coffee**	☐	water content [g/100 g], ash [g/100 g], pH value [-], acid content (acidity) at pH 6,00 [mmol/kg], acid content (acidity) at pH 7,00 [mmol/kg], acid content (acidity) at pH 8,00 [mmol/kg], water soluble extract [g/100 g], caffeine [g/100 g], acrylamide (CAS 79-06-1) [µg/kg], chlorogenic acid [g/100 g] (all quantitative)	Oct-26	
2010915	**Green coffee**	☐	percent mass loss [%] (all quantitative)	May-26	
2010394	**Tea**	☐	dry matter [g/100 g], ash [g/100 g dry matter], water soluble ash [g/100 g dry matter], water soluble extract [g/100 g dry matter], caffeine [g/100 g dry matter], theobromine [mg/100 g dry matter], theophylline [mg/100 g dry matter], acid-insoluble ash [g/100 g dry matter] (all quantitative)	Oct-26	
2010396	**Energy drink**	☐	pH value [-], taurine [mg/l], caffeine [mg/l], inosit [mg/l], glucuronolactone [mg/l], sucrose (anhydrous) [g/l], glucose (anhydrous) [g/l], fructose (anhydrous) [g/l], total sugar (anhydrous) [g/l], total acid (pH 8.1) calculated as tartaric acid [g/l], relative density (20 °C/20 °C) [-], absorption of light at a wavelength of 400 nm [-], absorption of light at a wavelength of 460 nm [-], absorption of light at a wavelength of 520 nm [-], absorption of light at a wavelength of 630 nm [-], CO2 content [g/l], dissolved oxygen [ppm] (all quantitative)	Oct-26	
2010021	**Vitamin solution**	☐	thiamine (vitamin B1) as thiamine chloride [mg/100 ml], riboflavine (vitamin B2) as total vitamin B2 [mg/100 ml], niacin (vitamin B3) [mg/100 ml], pantothenic acid (vitamin B5) [mg/100 ml], pyridoxine (vitamin B6) [mg/100 ml], folic acid (vitamin B11) [µg/100 ml], cyanocobalamin (vitamin B12) [µg/100 ml], L-ascorbic acid [mg/100 ml], α-tocopherol (vitamin E) [mg/100 ml], riboflavin [mg/100 ml], flavin mononucleotide [mg/100 ml], total ascorbic acid (vitamin C) [mg/100 ml], dehydroascorbic acid [mg/100 ml] (all quantitative)	May-26	
2010402	**Carrot juice**	☐	relative density (20 °C/20 °C) [-], pH value [-], total acid (pH 8.1) calculated as tartaric acid [g/l], sucrose (anhydrous) [g/l], fructose (anhydrous) [g/l], glucose (anhydrous) [g/l], nitrate [mg/l], total β-carotene [mg/100 g], α-carotene [mg/100 g], total carotenes [mg/100 g], total sugar (anhydrous) [g/l] (all quantitative)	Oct-26	
2010600	**Fruit juice concentrate**	☐	brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H+/kg], citric acid (anhydrous) [g/kg], total D-isocitric acid [mg/kg], L-malic acid [g/kg], total lactic acid [g/kg], L-ascorbic acid [mg/100 g], dehydroascorbic acid [mg/100 g], total ascorbic acid [mg/100 g], hesperidin [mg/kg], glucose (anhydrous) [g/kg], fructose (anhydrous) [g/kg], sucrose (anhydrous) [g/kg], total sugar (anhydrous) [g/kg], potassium (K) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], sodium (Na) [mg/kg] (all quantitative)	Jul-26	
2011020	**Apple juice**	☐	patulin (CAS 149-29-1) [µg/l] (all quantitative)	Jun-26	
2010617	**Carbonated soft drinks - quinine**	☐	quinine (CAS 130-95-0) [mg/l] (all quantitative)	May-26	
2010055	**Grape juice**	☐	sulphur dioxide (SO2) [mg/l] (all quantitative)	Jun-26	
2010127	**Currant juice**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], tin (Sn) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg] (all quantitative)	Aug-26	
2010154	**Tomato juice**	☐	total ergosterol [mg/l] (all quantitative)	Nov-26	
2010359	**Sugar substitutes in food**	☐	Isomalt (sum of GPS and GPM) (anhydrous) [g/100 ml], Lactitol (anhydrous) [g/100 ml], Maltitol (anhydrous) [g/100 ml], Mannitol (anhydrous) [g/100 ml], Sorbitol (anhydrous) [g/100 ml], Xylitol (anhydrous) [g/100 ml] (all quantitative)	Aug-26	
2010943	**Solvent residues in food**	☐	methanol (CAS 67-56-1) [mg/kg], acetone (CAS 67-64-1) [mg/kg], n-hexane (CAS 110-54-3) [mg/kg], dichloromethane (CAS 75-09-2) [mg/kg], methyl acetate (CAS 79-20-9) [mg/kg], isopropyl (CAS 67-63-0) [mg/kg], benzene (CAS 71-43-2) [mg/kg] (all quantitative)	Dec-26	
2011279	**Colourants in food**	☐	identification of various food colourants (qual.), quantification of the identified food colourants [mg/l] (quant.)	Jul-26	
	Alcoholic beverages				
2010133	**Beer**	☐	apparent extract [g/100 g], real extract [g/100 g], alcohol by weight [g/100 g], alcohol by volume [ml/100 ml], original wort [g/100 g], relative density (20 °C/20 °C) [-], bitterness units [IBU], pH value [-] (all quantitative)	Jul-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
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Cereals, cereal products - NEW!					
2011361	**Detection of foreign objects in food (filth test)**	☐	quant. determination of mineral matter [% (w/w)], quant. determination of insect residues [% (w/w)], quant. determination of rodent hairs [% (w/w)], quant. determination of feather fragments [% (w/w)] (all quantitative)	Nov-26	
Cereals, cereal products					
2010069	**Pastries**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], milk fat [g/100 g], sucrose (anhydrous) [g/100 g], starch [g/100 g], propionic acid [mg/kg] (all quantitative)	Nov-26	
2010427	**Flour**	☐	moisture content [g/100 g], crude protein (N x 5,7) [g/100 g], ash [g/100 g], starch [g/100 g], wet gluten [g/100 g], falling number [s], total acid (pH 8.5) calculated as lactic acid [g/100 g] (all quantitative)	Sep-26	
2010431	**Butter biscuit**	☐	ash [g/100 g], dry matter [g/100 g], crude protein (N x 6,25) [g/100 g], total fat [g/100 g], semimicro butyric acid number [-], free butyric acid [g/100 g fat], butyric acid methyl ester [g/100 g fat], milk fat [g/100 g], starch [g/100 g], cholesterol [mg/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-26	
2010955	**Antioxidants in food**	☐	BHA (CAS 25013-16-5) [mg/kg], BHT (CAS 128-37-0) [mg/kg], Ethoxyquin (CAS 91-53-2) [mg/kg] (all quantitative)	Sep-26	
2011114	**Pesticides in cereals**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-26	
2011214	**PAHs in grain**	☐	benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], sum of PAHs [µg/kg] (all quantitative)	Sep-26	
2010180	**Mineral oil in low-fat and starch-rich foodstuff**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	May-26	
2011217	**Visual determination of insects in flour**	☐	quant. determination of insect residues [% (w/w)] (quant.), number of whole insects [number/kg] (quant.), qualitative detection of insects [-] (qual.)	Sep-26	
Infant formula					
2011283	**MCPD and glycidol in infant milk formula**	☐	3-MCPD (sum of 3-MCPD and 3-MCPD fatty acid esters) [µg/kg], glycidyl fatty acid esters, expressed as glycidol [µg/kg] (all quantitative)	Sep-26	
2010441	**Baby porridge powder**	☐	thiamine (vitamin B1) as thiamine chloride [mg/100 g], riboflavine (vitamin B2) as total vitamin B2 [mg/100 g], pyridoxine (vitamin B6) [mg/100 g], cyanocobalamin (vitamin B12) [µg/100 g], retinol (vitamin A) as all-E-retinol [mg/100 g], L-ascorbic acid [mg/100 g], α-tocopherol (vitamin E) [mg/100 g], folic acid (vitamin B11) [µg/100 g], pantothenic acid (vitamin B5) [mg/100 g], biotin (vitamin B7) [µg/100 g], total ascorbic acid (vitamin C) [mg/100 g] (all quantitative)	Jul-26	
2010447	**Milk powder IMF part 1**	☐	fat [g/100g], crude protein (N x 6,25) [g/100g], ash [g/100g], moisture content [g/100g], retinol (vitamin A) as all-E-retinol [µg/100g], total ascorbic acid (vitamin C) [mg/100g] (all quantitative)	Aug-26	
2010449	**Milk powder IMF part 2**	☐	sodium (Na) [mg/100g], potassium (K) [mg/100g], calcium (Ca) [mg/100g], magnesium (Mg) [mg/100g], phosphorus (P) [mg/100g], iron (Fe) [mg/100g], copper (Cu) [µg/100g], zinc (Zn) [mg/100g], manganese (Mn) [µg/100g] (all quantitative)	Aug-26	
2010957	**Bisphenols in infant food**	☐	bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg] (all quantitative)	Oct-26	
2011126	**PFAS in baby food**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/kg], total perfluorooctanoic acid (CAS 335-67-1) [ng/kg], total perfluorononanoic acid (CAS 375-95-1) [ng/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/kg] (all quantitative)	May-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Declaration nutrition values				Login or register
2010451	**Declaration nutrition values with 2 different food stuff**	☐	energy value [kJ/100 g], protein [g/100 g], carbohydrate [g/100 g], sugar [g/100 g], fat [g/100 g], saturated fatty acids [g/100 g], fibre [g/100 g], salt [g/100 g] (all quantitative)	Sep-26	
	Food matrices (other) - NEW!				
2011359	**Sudan dyes in spices**	☐	identification of sudan dyes (all qualitative)	Dec-26	
2011360	**Melatonin in dietary supplements**	☐	melatonin (CAS 73-31-4) [mg/kg] (all quantitative)	Dec-26	
	Food matrices (other)				
2010459	**Mustard**	☐	dry matter [g/ 100 g], total acid (pH 8.1) calculated as acetic acid [g/ 100 g], sodium chloride [g/100 g], allyl isothiocyanate [mg/100 g], sulfur dioxide (SO_2) [mg/kg], total fat [g/100 g] (all quantitative)	Dec-26	
2010327	**Sugar free candies**	☐	glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], water content [g/100 g] (all quantitative)	Dec-26	
2010347	**Pyrrolizidine alkaloids in spices and tea**	☐	Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine (all quantitative)	Oct-26	
2010349	**Nicotine replacement products**	☐	nicotine (CAS 54-11-5) [mg/g] (all quantitative)	Aug-26	
2010498	**Metals in tobacco**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg] (all quantitative)	Aug-26	
2011087	**Peanut butter**	☐	dry matter [g/100 g], ash [g/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], pH value [g/100 g], sodium chloride [g/100 g], total sugar (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-26	
2011160	**PAHs in herbs and spices**	☐	benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], sum PAK [µg/kg] (all quantitative)	May-26	
2010197	**Delicatessen salad**	☐	benzoic acid [mg/kg], sorbic acid [mg/kg], Methyl 4-hydroxybenzoate [mg/kg], Ethyl 4-hydroxybenzoate [mg/kg], Propyl 4-hydroxybenzoate [mg/kg], Butyl 4-hydroxybenzoate [mg/kg], n-Butyl 4-hydroxybenzoate [mg/kg], Isobutyl 4-hydroxybenzoate [mg/kg] (all quantitative)	Dec-26	
	Animal feed				
2010315	**Fluoride content in animal feed**	☐	fluoride [mg/kg] (all quantitative)	Nov-26	
2010351	**Metals in animal feed**	☐	copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], calcium (Ca) [mg/kg], phosphorus (P) [mg/kg], potassium (K) [mg/kg], manganese (Mn) [mg/kg], magnesium (Mg) [mg/kg], sodium (Na) [mg/kg] (all quantitative)	Aug-26	
2010353	**Ingredients animal feed (round 1)**	☐	moisture content [g/100 g], crude protein (N x 6,25) [g/100 g], crude oil [g/100 g], crude ash [g/100 g], crude fiber [g/100 g], total sugar (anhydrous) [g/100 g], lactose (monohydrate) [g/100 g], starch [g/100 g], ash (insoluble in hydrochloric acid) [g/100 g], calcium carbonate [g/100 g] (all quantitative)	Aug-26	
2011166	**Ingredients animal feed (round 2)**	☐	crude protein (N x 6,25) [g/100 g], urea [g/100 g], volatile nitrogenous bases [g/100 g], amino acid content [g/kg], tryptophan (Trp) [g/100 g], phosphorus (P) [g/100 g], sodium chloride [g/100 g], retinol (vitamin A) as all-E-retinol [mg/kg], α-tocopherol (vitamin E) [mg/kg] (all quantitative)	Aug-26	
2011140	**PFAS in feed**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg dry matter], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg dry matter], total perfluorononanoic acid (CAS 375-95-1) [µg/kg dry matter], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg dry matter], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg dry matter], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg dry matter], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg dry matter], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg dry matter], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg dry matter], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg dry matter], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg dry matter], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg dry matter], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg dry matter] (all quantitative)	Nov-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Honey and beeswax				Login or register
2010455	**Honey**	☐	diastase number acc. to Schade [-], proline [mg/kg], hydroxymethylfurfural (CAS 67-47-0) [mg/kg], electrical conductivity [mS/cm], moisture [g/100 g], glycerin [mg/kg], ethanol (CAS 64-17-5) [mg/kg], pH value [-] (all quantitative)	Aug-26	
2011004	**Pesticide residues in honey**	☐	τ-fluvalinate (CAS 102851-06-9) [µg/kg], DEET (CAS 134-62-3) [µg/kg], piperonylbutoxide (CAS 51-03-6) [µg/kg], malathion (CAS 121-75-5) [µg/kg], chlorpyrifos (CAS 2921-88-2) [µg/kg] (all quantitative)	Nov-26	
2011006	**Pyrrolizidine alkaloids in honey**	☐	Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine (all quantitative)	Jun-26	
2011012	**Relative frequency of pollen in honey**	☐	Relative pollen frequency [%] (all quantitative)	Dec-26	
2011014	**Falsification honey**	☐	identification of rice syrup, identification of sugar beet syrup (all quantitative)	Jul-26	
2011018	**Falsification beeswax**	☐	paraffin wax [g/100 g], stearic acid [g/100 g] (all quantitative)	Dec-26	
	Cocoa and chocolate				
2010025	**Chocolate**	☐	total fat [g/100 g], milk fat [g/100 g], crude protein (N x 6,25) [g/100 g], water content [g/100 g], lactose (monohydrate) [g/100 g], sucrose (anhydrous) [g/100 g], theobromine [mg/100 g], caffeine [mg/100 g], dry matter [g/100 g], acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	Feb-26	
2010249	**Pesticides in chocolate**	☐	Malathion (CAS 121-75-5) [mg/kg], chlorpyrifos (CAS 2921-88-2) [mg/kg], metalaxyl (CAS 57837-19-1) [mg/kg], glyphosate (CAS 1071-83-6) [mg/kg] (all quantitative)	Oct-26	
2010337	**Metals in cocoa and chocolate**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg] (all quantitative)	Oct-26	
2010590	**Mineral oil in cocoa butter and chocolate**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Jul-26	

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Fats, oils and oilseeds - NEW!				Login or register
2011362	**Vitamins in edible oils**	☐	retinol (vitamin A) as all-E-retinol [µg/100 g], total vitamin D [µg/100 g], α-tocopherol (vitamin E) [mg/100 g], vitamin K1 [µg/100 g] (all quantitative)	Sep-26	
2011363	**Mineral oil in oil seeds**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Sep-26	
	Fats, oils and oilseeds				
2011281	**Edible oils - trace elements**	☐	phosphorus (P) [mg/kg], sodium (Na) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], iron (Fe) [mg/kg], copper (Cu) [mg/kg] (all quantitative)	Jun-26	
2011118	**Pesticides in hemp seeds**	☐	Identification of various pesticides (qual.), Quantification of the identified pesticides [mg/kg] (quant.)	Oct-26	
2010457	**Edible fat - fatty acid profile**	☐	fatty acid C 14:0 [g/100 g total fatty acids], fatty acid C 16:0 [g/100 g total fatty acids], fatty acid C 16:1 [g/100 g total fatty acids], fatty acid C 17:0 [g/100 g total fatty acids], fatty acid C 17:1 [g/100 g total fatty acids], fatty acid C 18:0 [g/100 g total fatty acids], fatty acid C 18:1 [g/100 g total fatty acids], fatty acid C 18:2 [g/100 g total fatty acids], fatty acid C 18:3 [g/100 g total fatty acids], fatty acid C 20:0 [g/100 g total fatty acids], fatty acid C 20:1 [g/100 g total fatty acids], fatty acid C 20:2 [g/100 g total fatty acids], fatty acid C 22:0 [g/100 g total fatty acids], fatty acid C 22:1 [g/100 g total fatty acids], fatty acid C 22:2 [g/100 g total fatty acids], fatty acid C 24:0 [g/100 g total fatty acids], fatty acid C 24:1 [g/100 g total fatty acids], Sum of the trans-fatty acids (TFA) [g/100 g total fatty acids] (all quantitative)	Oct-26	
2010710	**Edible fat**	☐	iodine value [g iodine / 100 g fat], acid value [mg KOH/g fat], peroxide value [mEq active oxygen/kg], saponification value [mg KOH/g fat], free fatty acids [mg/100 g], p-anisidine value [AV], Refractive Index [nD], water content [g/100 g] (all quantitative)	Oct-26	
2010157	**PAHs in animal and vegetable fats and oils**	☐	benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], sum of PAHs [µg/kg] (all quantitative)	Oct-26	
2010500	**MCPD and glycidol in edible oil**	☐	3-MCPD (sum of 3-MCPD and 3-MCPD fatty acid esters) [µg/kg], glycidyl fatty acid esters, expressed as glycidol [µg/kg] (all quantitative)	Nov-26	
2010941	**Cannabinoids in hemp seeds**	☐	Cannabidiol (CBD) (CAS 13956-29-1) [mg/kg], Delta-9-tetrahydrocannabinol (d9-THC) (CAS 1972-08-03) [mg/kg] (all quantitative)	Jun-26	
2010959	**Phthalates in edible oil**	☐	DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg] (all quantitative)	Oct-26	
2011092	**Alternaria toxins in vegetable oils**	☐	alternariol (AOH) (CAS 641-38-3) [µg/kg], alternariol monomethyl ether (AME) (CAS 23452-05-3) [µg/kg], tenuazonic acid (TEA) (CAS 610-88-8) [µg/kg], tentoxin (TEN) (CAS 28540-82-1) [µg/kg] (all quantitative)	Nov-26	
2011094	**Pesticides in oilseeds**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Oct-26	
2010320	**Mineral oil in edible fats**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Jul-26	
2011135	**Mineral oil in edible oils**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Dec-26	
2011150	**MOAH - quantification acc. number of aromatic rings**	☐	Monoaromatic MOAH [mg/kg], Diaromatic MOAH [mg/kg], Tri/Polyaromatic MOAH [mg/kg], MOAH C10-C50 [mg/kg], Total Terpenes and/or other natural interferences [mg/kg], PP PO(S)H [mg/kg], PE PO(S)H [mg/kg], Polyalphaolefins (PAO) [mg/kg], MOSH C10-C50 [mg/kg], Total Hydrocarbons (MOSH Fraction) [mg/kg], MOAH C10-C50 (LC-GC-FID) [mg/kg], MOSH C10-C50 (LC-GC-FID) [mg/kg] (all quantitative)	Sep-26	
2011280	**Hydrocyanic acid in linseed**	☐	hydrocyanic acid [mg/kg] (all quantitative)	Jun-26	

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Proficiency testing - organoleptic

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Nonalcoholic beverages				Login or register
3010000	**Water (ranking test, basic tastes) 1**	☐	organoleptic testing - basic taste (2 basic tastes)	Feb-26	
3010028	**Water (ranking test, basic tastes) 2**	☐	organoleptic testing - basic taste (2 basic tastes)	Jun-26	
3010030	**Water (ranking test, basic tastes) 3**	☐	organoleptic testing - basic taste (2 basic tastes)	Nov-26	
3010006	**Water (triangle test, basic taste)**	☐	organoleptic testing - triangle test basic taste	Jul-26	
3010055	**Fruit juice (threshold value examination, flavour taint)**	☐	threshold value	Dec-26	
3010032	**Fruit juice (triangle test, flavour taint)**	☐	organoleptic testing - triangle test flavour	Sep-26	
3010008	**Drinking water (TON, TFN) (minimum number of participants: 3 assessors)**	☐	threshold odour number (TON), threshold flavour number (TFN)	Mar-26	
3010010	**Apple juice (triangle test, basic taste)**	☐	organoleptic testing - triangle test basic taste	Jun-26	
3010016	**Coffee infusion (triangle test, flavour taint)**	☐	organoleptic testing - triangle test flavour	Jul-26	
3010029	**Plant drink (triangle test, flavour taint)**	☐	organoleptic testing - triangle test flavour	May-26	
	Alcoholic beverages				
3010020	**Beer (triangle test, Diacetyl)**	☐	organoleptic testing - diacetyl	Oct-26	
	Meat products				
3010018	**Sausage (simple descriptive testing)**	☐	Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	Jul-26	
	Animal feed - NEW!				
3010033	**Animal feed (simple descriptive testing)**	☐	Visual (Appearance), Olfactory (Smell/Odour), Texture	Sep-26	

possible basic tastes	**sweet, sour, bitter, salty**
possible flavours (except flavour taint)	**strawberry, cherry, vanilla, peach, lemon**

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Proficiency testing - organoleptic

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Food stuff (other)				Login or register
3010049	**Chocolate (simple descriptive testing)**	☐	Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	May-26	
3010051	**Chocolate (profile testing)**	☐	visual: brightness of the brown color (light - dark) [cm], olfactory: cocoa odour (little - much) [cm], gustatory: cocoa flavour (little - much) [cm], gustatory: sweetness (very sweet - little sweet) [cm], gustatory: bitterness (little bitter - very bitter) [cm], texture: hardness (low degree of hardness - high degree of hardness) [cm], mouthfeel: melting quality (fast melting - slow melting) [cm], mouthfeel: adstringency (little - much) [cm]	Nov-26	
3010004	**Tuna (triangle test)**	☐	organoleptic testing - triangle test	Jun-26	
3010054	**Texture test (triangle test)**	☐	organoleptic testing - triangle test	Apr-26	
3010007	**Colour check (triangle test)**	☐	organoleptic testing - triangle test	Apr-26	
	Milk products (other)				
3010037	**Yoghurt (ranking test, basic tastes)**	☐	organoleptic testing - basic taste (2 basic tastes)	Nov-26	
3010039	**Yoghurt (triangle test, basic taste)**	☐	organoleptic testing - triangle test basic taste	Nov-26	
3010041	**Yoghurt (ranking test, flavours)**	☐	organoleptic testing - flavour (2 flavours)	Nov-26	
3010043	**Yoghurt (triangle test, flavour)**	☐	organoleptic testing - triangle test flavour	Nov-26	
3010013	**Milk (triangle test, flavour taint)**	☐	organoleptic testing - triangle test flavour	Apr-26	

possible basic tastes	**sweet, sour, bitter, salty**
possible flavours (except flavour taint)	**strawberry, cherry, vanilla, peach, lemon**

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Milk and cream - NEW!						
2011339	**Enumeration of somatic cells in milk**	☐	somatic cells [cells/ml] (all quantitative)		Jul-26	
Milk and cream						
2011314	**Detection B.cereus milk**	☐	B.cereus qualitative [-] (all qualitative)	**risk group 2**	May-26	
2010013	**Enumeration of E. coli in milk 1**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010463	**Enumeration of E. coli in milk 2**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010033	**Enumeration of enterobacteriaceae in milk 1**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010465	**Enumeration of Enterobacteriaceae in milk 2**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010089	**Detection of Campylobacter spp. in milk**	☐	Campylobacter spp. (all qualitative)	**risk group 2**	May-26	
2010467	**Enumeration of aerobic spores in milk**	☐	aerobic spores [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010608	**EHEC-STEC Screening milk**	☐	EHEC-STEC Screening (all qualitative)	**risk group 3 ****	Jul-26	
2010612	**Total count in milk**	☐	aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010924	**Enumeration of yeasts in milk**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Aug-26	
2010045	**Milk (residues)**	☐	Chloramphenicol (CAS 56-75-7) [µg/kg], PCB 101 (CAS 37680-73-2) [(mg/kg) fat], trichlormethane (CAS 67-66-3) [mg/kg], aflatoxin M1 [µg/kg], Streptomycin (CAS 57-92-1) [µg/l], tetracycline (CAS 60-54-8) [µg/kg] (all quantitative)		Apr-26	
2010951	**Inhibitors in milk**	☐	Tetracycline (CAS 60-54-8) [µg/kg], Amoxicillin (CAS 26787-78-0) [µg/kg], Ceftriaxone (CAS 73384-59-5) [µg/kg], Ciprofloxacin (CAS 85721-33-1) [µg/kg] (all quantitative)		Dec-26	
Milk products (other)						
2010317	**Enumeration of characteristic microorganisms in yoghurt**	☐	Lactobacillus bulgaricus [cfu/g], Streptococcus thermophilus [cfu/g] (all quantitative)	**risk group 1**	May-26	
Cheese						
2010111	**Enumeration of E. coli in cheese**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jul-26	
2010176	**Enumeration of yeasts in cheese**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010178	**Enumeration of moulds in cheese**	☐	moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010137	**Detection of Listeria in cheese**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Aug-26	
2010469	**Enumeration of coagulase-pos. staphylococcus in cheese**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Jul-26	
2010471	**Enumeration of enterobacteriaceae in cheese**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jul-26	
2010156	**Enumeration of B. cereus in cheese**	☐	B.cereus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	May-26	
2010258	**Processed cheese (natamycin, aflatoxin)**	☐	natamycin (CAS 7681-93-8) [mg/kg], aflatoxin M1 [µg/kg] (all quantitative)		Dec-26	
Ice-cream						
2010548	**Enumeration of enterobacteriaceae in ice cream**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jul-26	
2010550	**Detection of Salmonella spp. in ice cream**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Jul-26	
2010552	**Enumeration of E. coli in ice cream**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jul-26	
2010554	**Enumeration of L. monocytogenes in ice cream**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Jul-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Milk powder					Login or register
2010160	**Enumeration of coliform bacteria in milk powder**	☐	Coliforms [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	May-26	
2010063	**Enumeration of yeasts in milk powder 1**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jan-26	
2010473	**Enumeration of yeasts in milk powder 2**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Sep-26	
2010065	**Enumeration of moulds in milk powder 1**	☐	moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Feb-26	
2010475	**Enumeration of moulds in milk powder 2**	☐	moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010477	**Enumeration of Enterobacteriaceae in milk powder**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jan-26	
2010479	**Enumeration of E. coli in milk powder**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Jan-26	
2010481	**Enumeration of lactic acid bacteria in milk powder**	☐	lactobacilli (microaerophilic) [cfu/g], aerobic total count [cfu/g], lactobacilli (aerobic) [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010483	**Detection of Shigella spp. in milk powder**	☐	Shigella spp. (all qualitative)	**risk group 2**	May-26	
2010095	**Enumeration of enterococci in milk powder**	☐	Enterococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Mar-26	
2010057	**Enumeration of clostridia in milk powder**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic , sulfite-reducing spores [cfu/g], C.perfringens [cfu/g] (all quantitative)	**risk group 2**	Jun-26	
2010109	**Enumeration of B. cereus in milk powder**	☐	B.cereus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	May-26	
2010081	**Detection of Cronobacter spp. in milk powder**	☐	Cronobacter spp. (all qualitative)	**risk group 2**	Mar-26	
2010148	**Detection of Salmonella spp. in milk powder 1**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Mar-26	
2010485	**Detection of Salmonella spp. in milk powder 2**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Nov-26	
2010083	**Enumeration of coagulase-pos. staphylococcus in milk powder**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Mar-26	
2010059	**Enumeration and detection of Listeria in milk powder 1**	☐	L. monocytogenes [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), L. monocytogenes qualitative (qual.)	**risk group 2**	Jan-26	
2010153	**Enumeration and detection of Listeria in milk powder 2**	☐	L. monocytogenes [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), L. monocytogenes qualitative (qual.)	**risk group 2**	Aug-26	
2010534	**Enumeration of thermophilic bacteria (55°C) in milk powder**	☐	thermophilic aerobic total count (55°C, vegetative) [cfu/g], thermoresistent spores of aerobic, thermophilic bacteria [cfu/g] (all quantitative)	**risk group 1**	Sep-26	
2010930	**Detection of coagulase-pos. staphylococcus in milk powder**	☐	coagulase-positive Staphylococcus qualitative (all qualitative)	**risk group 2**	Mar-26	
2010934	**Enumeration of anaerobic mesophilic spores in milk powder**	☐	anaerobic mesophilic spores [cfu/g], anaerobic total count [cfu/g] (all quantitative)	**risk group 2**	Sep-26	
2010938	**Detection of Pseudomonas spp. in milk powder**	☐	Pseudomonas spp. qualitative (all qualitative)	**risk group 2**	Jun-26	
2010940	**Detection of clostridia in milk powder**	☐	Clostridia spp. (all qualitative)	**risk group 2**	Jun-26	
2011162	**Aflatoxin M1 in milk powder**	☐	aflatoxin M1 [µg/kg] (all quantitative)		Oct-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Meat products					Login or register
2011313	**Enumeration of Campylobacter spp. in poultry**	☐	Campylobacter spp. quantitative [CFU/g] (all quantitative)	**risk group 2**	May-26	
2010035	**Enumeration of E. coli in ground meat 1**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Feb-26	
2010499	**Enumeration of E. coli in ground meat 2**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010039	**Enumeration of enterocateriaceae in ground meat 1**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Feb-26	
2010501	**Enumeration of Enterobacteriaceae in ground meat 2**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Nov-26	
2010142	**Enumeration of coagulase-pos. staphylococcus in ground meat**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Mar-26	
2010140	**Detection of Salmonella spp. in ground meat 1**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Mar-26	
2010503	**Detection of Salmonella spp. in ground meat 2**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Nov-26	
2010174	**Enumeration of Pseudomonas spp. in ground meat**	☐	Pseudomonas spp. [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Jun-26	
2010151	**Detection of Listeria in ground meat 1**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Mar-26	
2010505	**Detection of Listeria in ground meat 2**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Aug-26	
2010507	**Enumeration of Listeria in ground meat**	☐	L. monocytogenes [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Aug-26	
2010212	**Enumeration of lactic acid bacteria in ground meat**	☐	lactobacilli (aerobic) [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Mar-26	
2010146	**Detection of Campylobacter spp. in poultry**	☐	Campylobacter spp. (all qualitative)	**risk group 2**	May-26	
2010936	**Enumeration of coliform bacteria in ground meat**	☐	Coliforms [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Aug-26	
2010942	**Enumeration of clostridia in ground meat**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic , sulfite-reducing spores [cfu/g], C.perfringens [cfu/g] (all quantitative)	**risk group 2**	Jun-26	
2010945	**Allergens in meat products**	☐	egg [mg/kg], peanut [mg/kg], walnut [mg/kg], celery [mg/kg], mustard [mg/kg] (all quantitative)		Jul-26	
2010263	**Beef, pork, horse**	☐	identification of species (qual.), relative amount beef [%] (quant.), relative amount pork [%] (quant.), relative amount horse [%] (quant.)		Dec-26	
	Simulated microbiological evaluation					
2011198	**Simulated evaluation aerobic total count**	☐	colony enumeration aerobic total count [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011199	**Simulated evaluation aerobic spore-forming bacteria**	☐	colony enumeration aerobic spore-forming bacteria [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011200	**Simulated evaluation yeasts**	☐	colony enumeration yeasts [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011201	**Simulated evaluation mould**	☐	colony enumeration moulds [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011202	**Simulated evaluation lactic acid bacteria**	☐	colony enumeration lactic acid bacteria [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011203	**Simulated evaluation Sulfite-reducing clostridia**	☐	colony enumeration Sulfite-reducing clostridia [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	
2011204	**Simulated evaluation E.coli and Coliforms**	☐	colony enumeration E.coli [CFU] (quant.), colony enumeration Coliforms [CFU] (quant.), calculation of microbial load [-] (qual.)		Jul-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Egg products						
2010495	**Enumeration of Enterobacteriaceae in egg products**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Dec-26	
2010530	**Detection of Salmonella spp. in egg products**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Dec-26	
2010532	**Enumeration of E. coli in egg products**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Dec-26	
2010706	**Antibiotics in liquid egg**	☐	Chloramphenicol (CAS 56-75-7) [µg/kg], Tetracycline (CAS 60-54-8) [µg/kg], Sulfadimidine (CAS 57-68-1) [µg/kg], Nitrofurantoin (CAS 67-20-9) [µg/kg] (all quantitative)		May-26	
Fish & seafood						
2010509	**Fish and seafood - detection Yersinia enterocolitica**	☐	Yersinia enterocolitica (all qualitative)	**risk group 2**	May-26	
2010540	**Fish and seafood - detection of Salmonella spp.**	☐	Salmonella spp. (all qualitative)	**risk group 2**	May-26	
Infant formula						
2010182	**Enumeration of bifidobacteria in infant food**	☐	Bifidobacteria [cfu/g] (all quantitative)	**risk group 1**	Jul-26	
2010261	**Milk powder IMF allergens**	☐	gliadin [mg/kg], lactose (monohydrate) [mg/100g], ß-lacto-globulin [mg/kg], soy protein [mg/kg], casein [mg/kg] (all quantitative)		Oct-26	
Food matrices (other) - NEW!						
2011340	**Microbial count by flow cytometry**	☐	number of living, bacteria cells [cells/ml] (all quantitative)	**risk group 1**	Jul-26	
2011341	**Biochemical confirmation procedures in microbiology**	☐	Gram stain [positive/negative], Oxidase test [positive/negative], Katalase test [positive/negative] (all qualitative)	**risk group 1**	Jul-26	
	These are proficiency tests that focus purely on testing techniques. A test simulant is used as the matrix.					
2011343	**Ready to eat meals - enumeration of Coliform bacteria**	☐	Coliforms [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Sep-26	
2011344	**Ready to eat meals - enumeration coagulase pos. Staphylococcus**	☐	coagulase pos. Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Sep-26	
2010536	**Enumeration of osmophilic yeasts in sweets**	☐	osmophilic yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
2010538	**Enumeration of osmophilic moulds in sweets**	☐	osmophilic moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
Food matrices (other)						
2010513	**Ready-to-eat meals - detection of Listeria**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Aug-26	
2010515	**Detection of Salmonella spp. in spices**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Dec-26	
2010313	**Porcine DNA in Candy**	☐	identification of the animal species pork (all quantitative)		Dec-26	
2010588	**Porcine and beef DNA in gelatine**	☐	identification of the animal species pork, identification of the animal species beef (all quantitative)		Dec-26	
2011090	**Aflatoxins in nuts**	☐	aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Oct-26	
2011091	**Aflatoxins in spices**	☐	aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Dec-26	
Animal feed						
2011306	**Detection of Listeria spp. in animal feed**	☐	Listeria spp. qualitative (all qualitative)	**risk group 2**	Dec-26	
2010188	**Enumeration von Clostridia in animal feed**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], lactobacilli (anaerobic) [cfu/g], anaerobic mesophilic sulfite-reducing spores [cfu/g], anaerobic mesophilic total spores (nonselective) [cfu/g] (all quantitative)	**risk group 2**	Aug-26	
2010519	**Detection of Salmonella spp. in animal feed**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Dec-26	
2011163	**Animal feed (GMO)**	☐	Quantitative detection of transgenic plants (construct or event-specific methods possible) [%], Qualitative detection of various screening elements (all quantitative)		Nov-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Fruit & vegetables products						
2010043	**Enumeration and detection of yeasts in fruit preparation**	☐	yeasts [cfu/g] (quant.), yeasts qualitative (qual.)	**risk group 1**	Aug-26	
2010101	**Enumeration and detection of moulds in fruit preparation**	☐	moulds [cfu/g] (quant.), moulds qualitative (qual.)	**risk group 1**	Aug-26	
2010487	**Detection of Listeria in vegetables**	☐	L. monocytogenes qualitative (all qualitative)	**risk group 2**	Aug-26	
2010489	**Enumeration of Listeria in vegetables**	☐	L. monocytogenes [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 2**	Aug-26	
2010563	**Enumeration of yeasts in fruits**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
2010565	**Enumeration of moulds in fruits**	☐	moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
Nonalcoholic beverages						
2010097	**Enumeration of E. coli in fruit juice**	☐	E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
2010199	**Spoiling organisms in fruit juice concentrate & compounds 1**	☐	spoiling organism quantitative [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), spoiling organism qualitative (qual.)	**risk group 1**	Apr-26	
2010491	**Spoiling organisms in fruit juice concentrate & compounds 2**	☐	spoiling organism quantitative [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), spoiling organism qualitative (qual.)	**risk group 1**	Nov-26	
2010493	**Alicyclobacillus spp. fruit juice concentrate**	☐	Alicyclobacillus spp. (all qualitative)	**risk group 1**	Oct-26	
2010592	**Enumeration of yeasts in fruit juice concentrate**	☐	yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
2010594	**Enumeration of moulds in fruit juice concentrate**	☐	moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
2010596	**Enumeration of lactic acid bacteria in fruit juice**	☐	lactic acid bacteria (aerobic) [cfu/g], aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Apr-26	
Alcoholic beverages - NEW!						
2011345	**Enumeration & identification of beer specific microorganisms**	☐	yeasts (quant.), lactic acid bacteria (quant.), aerobic total count (quant.), identification (qual.)	**risk group 1**	Aug-26	
Alcoholic beverages						
2010275	**Detection of Dekkera bruxellensis in wine**	☐	Dekkera bruxellensis qualitative (all qualitative)	**risk group 1**	Aug-26	
2011142	**Detection of Dekkera bruxellensis in beer**	☐	Dekkera bruxellensis qualitative (all qualitative)	**risk group 1**	Aug-26	
Performance testing culture media						
2011336	**Performance testing solid culture media – productivity (EN ISO 11133)**	☐	productivity [cfu] (all quantitative)	**risk group 1**	Sep-26	

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Proficiency testing - immunological, molecular biological & microbiological

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Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
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Mineral water and table water						
2010674	**Aerobic total count mineral water and table water**	☐	aerobic total count 37°C [KbE/ml], aerobic total count 20°C [KbE/ml] (all quantitative)		Apr-26	
2010676	**Detection fecal streptococci in mineral- and table water**	☐	streptococci (faecal) qualitative (all qualitative)		Oct-26	
2010680	**Detection Ps. aeruginosa in mineral- and table water**	☐	Ps.aeruginosa qualitative (all qualitative)		Oct-26	
2010952	**Sulfite-reducing, spore-forming anaerobes mineral water**	☐	sulfite-reducing, spore-forming anaerobes qualitative (all qualitative)		Aug-26	
2010134	**Detection coliform bacteria in mineral- and table water**	☐	Coliforms qualitative (all qualitative)		Oct-26	
2010138	**Detection E. coli in mineral- and table water**	☐	E.coli qualitative (all qualitative)		Oct-26	
Cereals, cereal products - NEW!						
2011342	**Detection of B. cereus and B. cereus toxin in cooked rice**	☐	B.cereus qualitative, B.cereus toxin qualitative (all qualitative)		May-26	
Cereals, cereal products						
2011167	**Mycotoxins in corn**	☐	aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], ochratoxin A [µg/kg], deoxynivalenol (DON) [µg/kg], fumonisin B1 [µg/kg], zearalenone [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Nov-26	
2010141	**Corn (GMO)**	☐	detection of screening elements P-35S, T-NOS and pat, relative amount Bt-11 [%], relative amount MON810 [%] (all quantitative)		Nov-26	
2010143	**Rice (GMO)**	☐	detection of screening elements P-35S, T-NOS and bar, relative amount LLRice62 [%] (all quantitative)		Nov-26	
2010429	**Gluten**	☐	gluten [mg/kg] (all quantitative)		Nov-26	
2011108	**Qualitative detection of insects in flour**	☐	identification of the animal species Tenebrio molitor (all quantitative)		Nov-26	
Fats, oils and oilseeds						
2010720	**Soy (GMO)**	☐	Detection of screening elements P-35S, T-NOS and P-FMV, relative amount GTS 40-3-2 [%], relative amount MON 89788 [%] (all quantitative)		Nov-26	
2010145	**Canola (GMO)**	☐	Detection of screening elements T-NOS, CTP2-CP4EPSPS and P-FMV, relative amount 73496 [%], relative amount GT73 [%] (all quantitative)		Dec-26	
Honey and beeswax						
2011002	**Antibiotics in honey**	☐	chloramphenicol (CAS 56-75-7) [µg/kg], streptomycin (CAS 57-92-1) [µg/kg], sulfadimidine (CAS 57-68-1) [µg/kg], tetracycline (CAS 60-54-8) [µg/kg] (all quantitative)		Jun-26	
2011010	**GMOs in honey**	☐	detection of screening elements P-35S, T-NOS and P-FMV (all quantitative)		Jul-26	
Cocoa and chocolate						
2010247	**Aflatoxins in chocolate**	☐	aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Sep-26	
2010144	**Detection of Salmonella spp. in chocolate**	☐	Salmonella spp. (all qualitative)		Mar-26	
Vegan and vegetarian substitutes						
2011165	**Identification of plant based food**	☐	identification soy, identification beans, identification lentils (all quantitative)		Oct-26	
2011164	**Vegan food identification (ISO 23662)**	☐	identification of vegan foods (all quantitative)		Oct-26	

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registration form proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

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For proficiency testing schemes labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancelation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

- ☐ This registration is permanent-registration and valid until my cancelation
- ☐ An offer with the total costs is needed
- ☐ A Purchase order from the purchasing department will follow

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	DRRR-customer number
	company
	additional line
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien GmbH
Reinhartser Straße 31 | 87437 Kempten
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99
www.DRRR.de | info@DRRR.de

reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

Description reference material

Reference solution Enterobacteriaceae

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivate reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

Profit with our high quality standards for your lab work

Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.

Identification

The reference materials listed on the following pages have specific article numbers to identify the materials. To supply our customers with consistently high quality the DRRR-reference materials will be replaced regularly by corresponding materials during the year. Currently available reference materials and its corresponding reference values will be sent on request. We reserve our right to send you always the latest materials.

Availability and order request of reference material

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long-term calibration material (LKM)

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

STANDARON®

Eine Marke der DRRR GmbH und der LUFA Nord-West

The brand STANDARON®

The DRRR has concluded a far reaching cooperation with the IfL. The main focus of this cooperation is the development and commercialisation of long term calibration materials for the food economy. The developed materials were merchandised with the name **STANDARON®** .

STANDARON® long-term calibration materials (LKM) for raw milk, raw cream and pasteurised milk will be used for the calibration of IR instruments.

Reference system for raw milk analysis

With the cooperation arises a range of services that offers not only regional but also national both in North and South Germany a competent reference system for raw milk analysis. Therewith it also offers more advantages and reliabilities for our international customers. The cooperation could already prove its competence at the new introduced STANDARON® raw cream materials. The quality advantage of the materials has been clearly confirmed at linearity, precision and stability. Besides standard materials is a focus of the cooperation to produce tailor-made, customer-oriented materials which are specially designed to cover individual production processes.

The reference values of STANDARON® materials were defined by selected "reference laboratories". These laboratories are proved the requirements according to DIN EN ISO/IEC 17025:2017.

Questions about the application

If you need any advice to assure your calibration do not hesitate to contact us.

Application of the materials

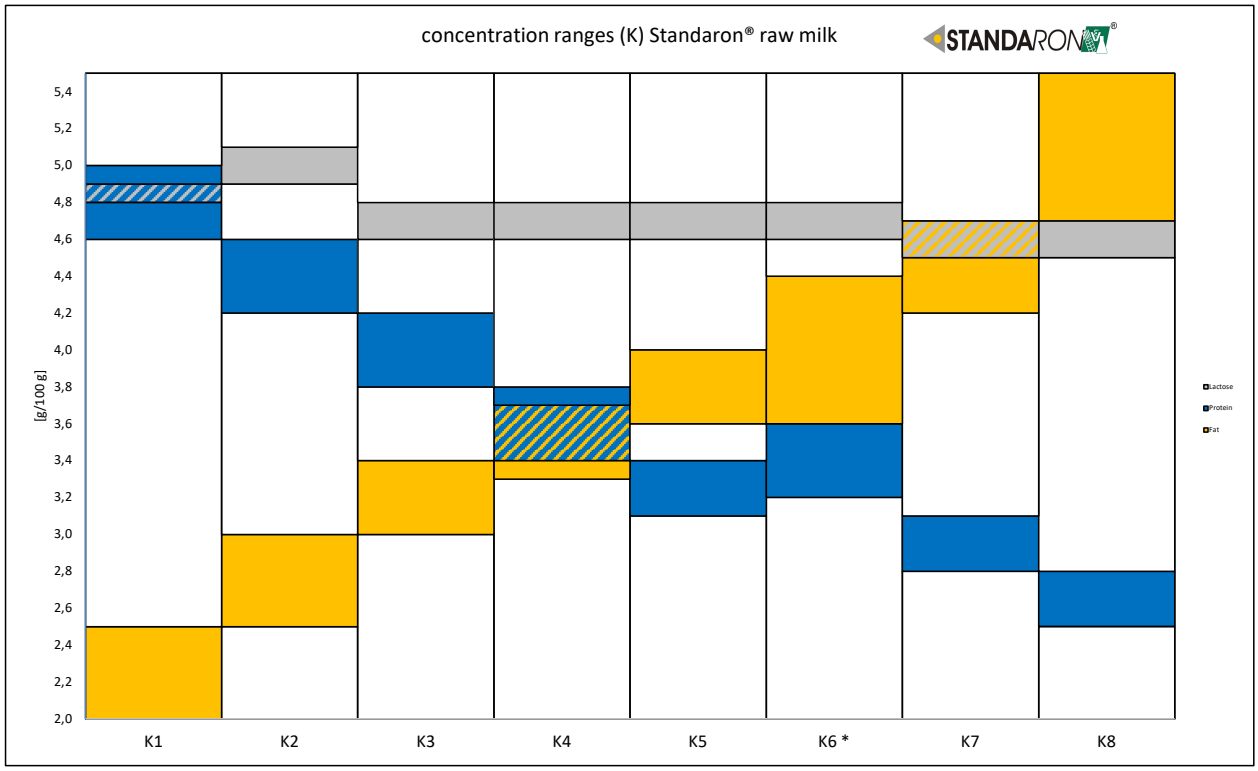
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STANDARON® - overview raw milk

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

LKM-type	Art. No.	fat	protein	lactose	dry matter	freezing point	urea	packaging unit	prices
		Röse-Gottlieb	*Kjeldahl*	*enzym.*	*102 °C*	*cryoscopy*	*enzym.*		
		g/100g	g/100g	g/100g	g/100g	m°C	mg/kg		
LKM RO K1	1141021	**2,0 - 2,5 %**	**4,6 - 5,0 %**	**4,8 - 4,9 %**	**available reference material and the corresponding reference values are available on request**			**50 ml**	20 €
LKM RO K2	1141022	**2,5 - 3,0 %**	**4,2 - 4,6 %**	**4,9 - 5,1 %**					
LKM RO K3	1141023	**3,0 - 3,4 %**	**3,8 - 4,2 %**	**4,6 - 4,8 %**					
LKM RO K4	1141024	**3,3 - 3,7 %**	**3,4 - 3,8 %**	**4,6 - 4,8 %**					
LKM RO K5	1141025	**3,6 - 4,0 %**	**3,1 - 3,4 %**	**4,6 - 4,8 %**					
LKM RO K6 *	1141026	**3,6 - 4,4 %**	**3,2 - 3,6 %**	**4,6 - 4,8 %**					
LKM RO K7	1141027	**4,2 - 4,7 %**	**2,8 - 3,1 %**	**4,5 - 4,7 %**					
LKM RO K8	1141028	**4,7 - 5,5 %**	**2,5 - 2,8 %**	**4,5 - 4,7 %**					

* unmodified raw milk, higher variances possible

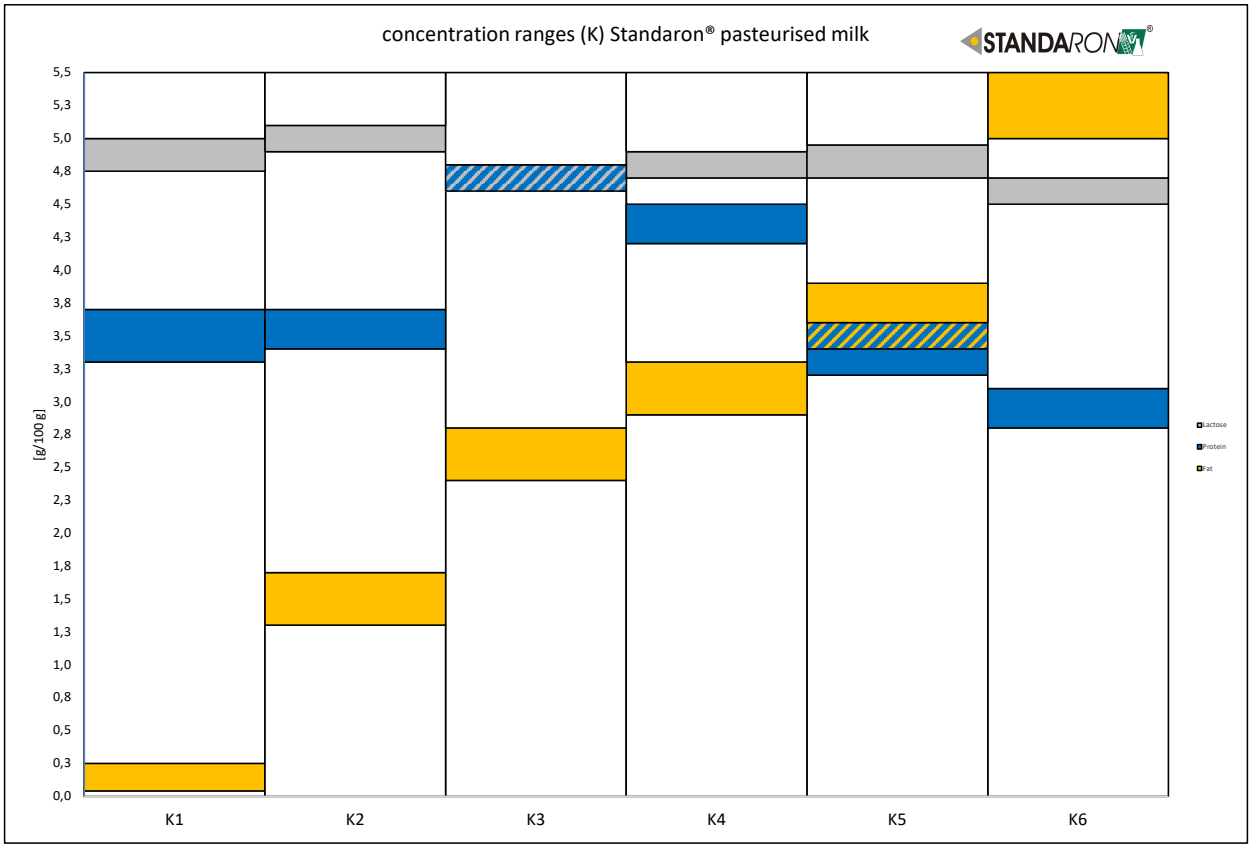


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STANDARON® - overview pasteurized milk

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

LKM-type	Art. No.	fat	protein	lactose	dry matter	freezing point	packaging unit	prices
		Röse-Gottlieb	*Kjeldahl*	*enzym.*	*102 °C*	*cryoscopy*		
		g/100g	g/100g	g/100g	g/100g	m°C		
LKM PAM K1	1141001	**2,0 - 2,5 %**	**4,6 - 5,0 %**	**4,8 - 4,9 %**	**available reference material and the corresponding reference values are available on request**		**50 ml**	18 €
LKM PAM K2	1141002	**2,5 - 3,0 %**	**4,2 - 4,6 %**	**4,9 - 5,1 %**				
LKM PAM K3	1141003	**3,0 - 3,4 %**	**3,8 - 4,2 %**	**4,6 - 4,8 %**				
LKM PAM K4	1141004	**3,3 - 3,7 %**	**3,4 - 3,8 %**	**4,6 - 4,8 %**				
LKM PAM K5	1141005	**3,6 - 4,0 %**	**3,1 - 3,4 %**	**4,6 - 4,8 %**				
LKM PAM K6	1141006	**3,6 - 4,4 %**	**3,2 - 3,6 %**	**4,6 - 4,8 %**				

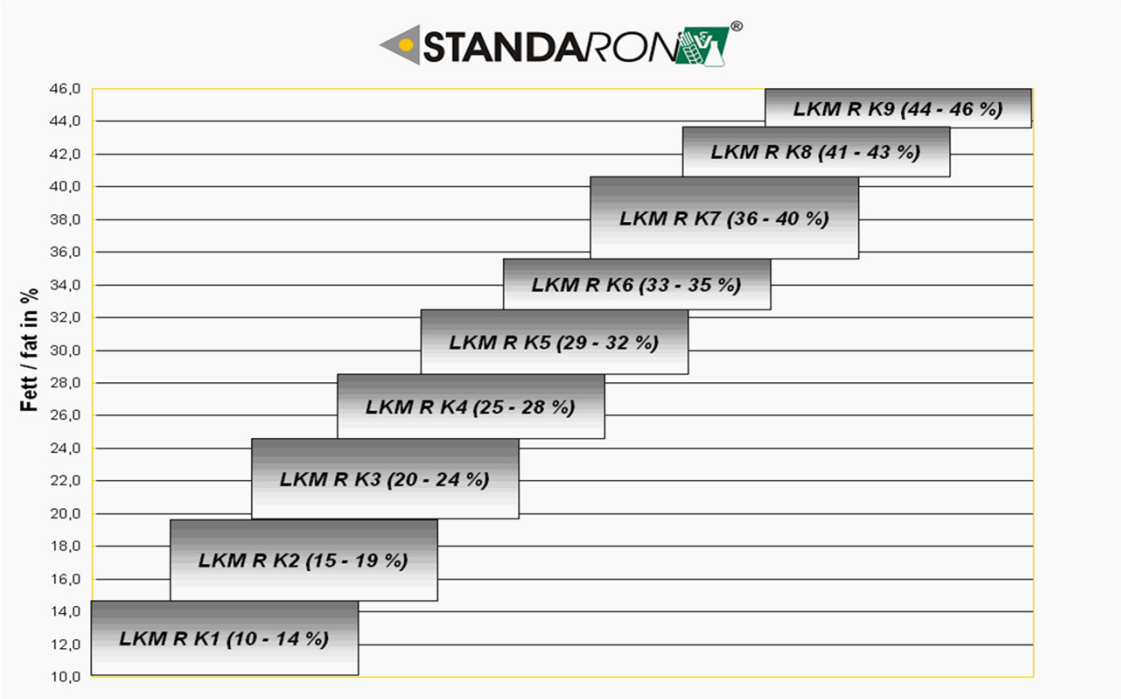


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STANDARON® - overview raw cream

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

LKM-type	Art. No.	fat	protein	dry matter	packaging unit	prices
		Röse-Gottlieb	*Kjeldahl*	*102 °C*		
		g/100g	g/100g	g/100g		
LKM R K1	1141011	**10 - 14 %**	**available reference material and the corresponding reference values are available on request**		**50 ml**	20 €
LKM R K2	1141012	**15 - 19 %**				
LKM R K3	1141013	**20 - 24 %**				
LKM R K4	1141014	**25 - 28 %**				
LKM R K5	1141015	**29 - 32 %**				
LKM R K6	1141016	**33 - 35 %**				
LKM R K7	1141017	**36 - 40 %**				
LKM R K8	1141018	**41 - 43 %**				24 €
LKM R K9	1141019	**44 - 46 %**				25 €



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STANDARON® - overview whey

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

LKM-type	Art. No.	fat	protein	lactose monohydrate	dry matter	ash	packaging unit	prices
		Röse-Gottlieb	*Kjeldahl*	*enzym.*	*102 °C*	*500-550 °C*		
		g/100g	g/100g	g/100g	g/100g	g/100 g		
sweet whey	1141031	**available reference material and the corresponding reference values are available on request**					**50 ml**	22 €
sour whey	1141032						**50 ml**	
whey concentrate	1141033						**50 ml**	

Your contact persons at DRRR GmbH, Kempten: Team Reference Materials Dr. Ulrich Leist	+49 (0)8 31/960 878-0
Your contact persons at LUFA NORD-WEST, Oldenburg Sarah Pietsch	+49 (0)4 41/97 352-152

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
	Milk and cream			on request: info@drrr.de
1101001	**UHT Milk**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], density [g/ml]	
1101007	**Evaporated milk**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], ash [g/100g], phosphorus (P) [mg/100g]	
1121064	**Dairy drinks**	☐	fat [g/100g], crude protein (N x 6,38) [g/100g], dry matter [g/100g], sucrose (anhydrous) [g/100g], glucose (anhydrous) [g/100g], lactose (monohydrate) [g/100g], fructose (anhydrous) [g/100g], total sugar (anhydrous) [g/100g]	
	Milk products (other)			
1111007	**Butter**	☐	solids non fat [g/100g], moisture content [g/100g], hardness [N], chloride [mg/100g], cholesterol [mg/100g], pH value [-]	
1111008	**Butter (fatty acid profile)**	☐	butyric acid [% / fat], caproic acid [% / fat], caprylic acid [% / fat], capric acid [% / fat], lauric acid [% / fat], myristic acid [% / fat], myristoleic acid [% / fat], myristelaidic acid [% / fat], palmicit acid [% / fat], palmitoleic acid [% / fat], palmitelaidic acid [% / fat], stearic acid [% / fat], linoleic acid [% / fat], linolenic acid [% / fat], gamma linolenic acid [% / fat], eicosatrienoic acid [% / fat], eicosatetraenoic acid [% / fat], eicosapentaenoic acid [% / fat]	
1111009	**Yoghurt**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], pH value [-], total lactic acid [mg/100g]	
1111010	**Pudding - dessert**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], pH value [-]	
1111011	**AMF anhydrous milk fat**	☐	water content [g/100g], free fatty acids [g/100g], total β-carotene [mg/kg], butyric acid methyl ester [g/100g]	
	Ice-cream			
1121001	**Ice cream (base mix)**	☐	total fat [g/100 g], milk fat [g/100 g], colouring agent cochenille red A [mg/kg], lactose (monohydrate) [g/100 g], vanillin [mg/kg], vanillin acid [mg/kg], p-hydroxybenzaldehyde [mg/kg], p-hydroxybenzoic acid [mg/kg], colouring agent curcumin [pos./neg.], colouring agent β-carotene [pos./neg.], colouring agent cochenille red A qual. [pos./neg.], foreign fat (added fat) [pos./neg.]	
	Cheese			
1111001	**Processed cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g], pH value [-], sodium chloride [g/100g], nitrate [mg/kg], citric acid (monydrate) [mg/100g], phosphorus [mg/100g], ash [g/100g], lactose (monohydrate) [g/100g]	
1111002	**Fresh cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g]	
1111004	**Semi hard cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], nitrate [mg/kg]	
1111005	**Hard cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g]	
1111006	**Soft cheese**	☐	fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], pH value [-]	
	Milk powder			
1121002	**Whole milk powder**	☐	fat [g/100 g], free fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [-]	
1121004	**Milk powder (lactose reduced)**	☐	lactose (monohydrate) - chromatographic [g/100 g], lactose (monohydrate) - enzymatic [g/100 g], moisture content [g/100 g]	
1121005	**Milk powder nitrate - nitrite**	☐	nitrate [mg/kg], nitrite [mg/kg]	
1121007	**Whey powder**	☐	fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], ash [g/100 g], lactose (monohydrate) [g/100 g], titratable acid [g/100 g], pH value [-]	
1151004	**Mineral oil in cheese and milk powder**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
				on request: info@drrr.de
Egg products				
1121028	**Egg products**	☐	total lipids [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], pH value [-], cholesterol [mg/100 g], α-linolenic acid methyl ester [g/100 g total fatty acid methyl ester], eicosapentaenoic acid methyl ester [g/100 g total fatty acid methyl ester], docosahexaenoic acid methyl ester [g/100 g total fatty acid methyl ester], sodium chloride [g/100 g]	
1121029	**Egg pasta**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], cholesterol [mg/100 g], total sterols [mg/100 g], egg content [g/100 g], fibre [g/100 g]	
1121030	**Mayonnaise**	☐	total acid (pH 8.1) calculated as acetic acid [g/100 g], dry matter [g/100 g], total fat [g/100 g], cholesterol [mg/100 g], egg yolk content [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sodium chloride [g/100 g], pH value [-]	
1121088	**Egg powder**	☐	total lipids [g/100 g], ash [g/100 g], pH value [-], dry matter [g/100 g], sodium chloride [g/100 g], L-lactic acid [mg/kg], D-3-hydroxybutyric acid [mg/kg], crude protein (N x 6,25) [g/100 g]	
1121154	**PFAS in liquid egg**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335 67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg]	
Fruit & vegetables products				
1121009	**Sugar mix (fruit preparation)**	☐	sucrose (anhydrous) [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], starch [g/100 g], aspartame [ppm], acesulfam K [ppm], sorbate (as anion) [ppm], saccharin as free imide [ppm], total sugar (anhydrous) [g/100 g]	
1121010	**Fruit preparation**	☐	brix value [°brix], pH value [-], total acid (pH 8.1) calculated as citric acid (anhydrous) [g/kg], L malic acid [g/kg], ash [g/kg], phosphorus (P) [g/kg], potassium (K) [mg/100 g]	
1121013	**Dry potato product**	☐	moisture content [g/100 g], total fat [g/100 g], saturated fatty acids [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], carbohydrates [g/100 g], starch [g/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g], sodium (Na) [g/100 g]	
1121014	**Tomato ketchup**	☐	pH value [-], total acid (pH 8.1) calculated as acetic acid [g/100 g], citric acid (anhydrous) [g/100 g], sodium chloride [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], soluble solids [g/100 g], dry matter [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g]	
Vegan und vegetarian substitutes				
1121092	**Plant drink (milk alternative)**	☐	fat [g/100 g], dry matter [g/100 g], crude protein (N x 6,38) [g/100 g], freezing point [m°C], density [g/ml]	
1121069	**Vegetarian sausage substitute**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], fibre [g/100 g], pH value [-]	
Meat products				
1121031	**Boiled sausage 1**	☐	total fat [g/100 g], moisture content [g/100 g], ash [g/100 g], crude protein (N x 6,25) [g/100 g], hydroxyproline [g/100 g], sodium chloride [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], diphosphorus pentoxide (P2O5) [g/100 g], calcium (Ca) [mg/kg], aw value [-], starch [g/100 g]	
1121032	**Boiled sausage 2**	☐	non-protein nitrogen (NPN) x 6.25 [g/100 g], collagen decomposition products [g/100 g], L-glutamic acid [mg/kg], citric acid (anhydrous) [mg/kg], sodium acetate [mg/kg], L-lactate [mg/kg], sodium nitrate [mg/kg], sodium nitrite [mg/kg], total ascorbic acid (vitamin C) [mg/100 g], pH value [-]	
1121033	**Raw sausage 1**	☐	aw value [-], pH value [-], D-lactic acid [mg/kg], L-lactic acid [mg/kg], sodium (Na) [mg/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], sorbic acid [mg/kg], saturated fatty acids [g/100 g Fett (fat)], monounsaturated fatty acids [g/100 g Fett (fat)], total fat [g/100 g]	
1121060	**Raw sausage 2**	☐	sodium (Na) [mg/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], hydroxyproline [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], starch [g/100 g], solubilised milk protein [g/100 g]	
1121142	**Cooked sausage**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], pH value [-], aw value [-], hydroxyproline [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], starch [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], L-glutamic acid [mg/kg]	
Fish and seafood				
1121034	**Fish paste 1**	☐	moisture content [g/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], sodium chloride [g/100 g], arsenic (As) [µg/100 g], iodine (I) [µg/100 g]	
1121035	**Fish paste 2**	☐	total fat [g/100 g], sorbic acid [mg/100 g], benzoic acid [mg/100 g], saccharin as free imide [mg/100 g], cyclamate [mg/100 g], citric acid (anhydrous) [mg/100 g]	
1121148	**PFAS in fish**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335 67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg]	

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
				on request: info@drrr.de
Nonalcoholic beverages				
1121015	**Coffee**	☐	water content [g/100 g], ash [g/100 g], pH value [-], acid content (acidity) at pH 6,00 [mmol/kg], acid content (acidity) at pH 7,00 [mmol/kg], acid content (acidity) at pH 8,00 [mmol/kg], water soluble extract [g/100 g], caffeine [g/100 g], acrylamide (CAS 79-06-1) [µg/kg], chlorogenic acid [g/100 g]	
1121016	**Tea**	☐	dry matter [g/100 g], ash [g/100 g dry matter], water soluble ash [g/100 g dry matter], water soluble extract [g/100 g dry matter], caffeine [g/100 g dry matter], theobromine [mg/100 g dry matter], theophylline [mg/100 g dry matter], acid-insoluble ash [g/100 g dry matter]	
1121017	**Energy drink**	☐	pH value [-], taurine [mg/l], caffeine [mg/l], inosit [mg/l], glucuronolactone [mg/l], sucrose (anhydrous) [g/l], glucose (anhydrous) [g/l], fructose (anhydrous) [g/l], total sugar (anhydrous) [g/l], total acid (pH 8.1) calculated as tartaric acid [g/l], relative density (20 °C/20 °C) [-], absorption of light at a wavelength of 400 nm [-], absorption of light at a wavelength of 460 nm [-], absorption of light at a wavelength of 520 nm [-], absorption of light at a wavelength of 630 nm [-], CO2 content [g/l], dissolved oxygen [ppm]	
1121018	**Vitamin solution**	☐	thiamine (vitamin B1) as thiamine chloride [mg/100 ml], riboflavine (vitamin B2) as total vitamin B2 [mg/100 ml], niacin (vitamin B3) [mg/100 ml], pantothenic acid (vitamin B5) [mg/100 ml], pyridoxine (vitamin B6) [mg/100 ml], folic acid (vitamin B11) [µg/100 ml], cyanocobalamin (vitamin B12) [µg/100 ml], L-ascorbic acid [mg/100 ml], α-tocopherol (vitamin E) [mg/100 ml], riboflavin [mg/100 ml], flavin mononucleotide [mg/100 ml], total ascorbic acid (vitamin C) [mg/100 ml], dehydroascorbic acid [mg/100 ml]	
1121021	**Carrot juice**	☐	relative density (20 °C/20 °C) [-], pH value [-], total acid (pH 8.1) calculated as tartaric acid [g/l], sucrose (anhydrous) [g/l], fructose (anhydrous) [g/l], glucose (anhydrous) [g/l], nitrate [mg/l], total β-carotene [mg/100 g], α-carotene [mg/100 g], total carotenes [mg/100 g], total sugar (anhydrous) [g/l]	
1121058	**Fruit juice concentrate**	☐	brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H+/kg], citric acid (anhydrous) [g/kg], total D-isocitric acid [mg/kg], L-malic acid [g/kg], total lactic acid [g/kg], L-ascorbic acid [mg/100 g], dehydroascorbic acid [mg/100 g], total ascorbic acid [mg/100 g], hesperidin [mg/kg], glucose (anhydrous) [g/kg], fructose (anhydrous) [g/kg], sucrose (anhydrous) [g/kg], total sugar (anhydrous) [g/kg], potassium (K) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], sodium (Na) [mg/kg]	
1121059	**Fruit juice concentrate 2**	☐	brix value [°brix], titratable acidity (pH 8.1) [mmol H+/kg], glucose (anhydrous) [g/kg], fructose (anhydrous) [g/kg], sucrose (anhydrous) [g/kg], total sugar (anhydrous) [g/kg], sugar-free extract [g/kg], glucose/fructose ratio [-], % sucrose of sugar [%]	
1121062	**Fruit juice concentrate 3**	☐	brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H+/kg], ash [g/kg], potassium (K) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], phosphorus (P) [mg/kg], sodium (Na) [mg/kg], nitrate [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg]	
1121053	**Grape juice**	☐	sulphur dioxide (SO2) [mg/l]	
1121054	**Currant juice**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], tin (Sn) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg]	
1121055	**Tomato juice**	☐	total ergosterol [mg/l]	
Alcoholic beverages				
1121026	**Beer**	☐	apparent extract [g/100 g], real extract [g/100 g], alcohol by weight [g/100 g], alcohol by volume [ml/100 ml], original wort [g/100 g], relative density (20 °C/20 °C) [-], bitterness units [IBU], pH value [-]	
Cereals, cereal products				
1121037	**Pastries**	☐	total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], milk fat [g/100 g], sucrose (anhydrous) [g/100 g], starch [g/100 g]	
1121061	**Pastries**	☐	propionic acid [mg/kg]	
1121038	**Flour**	☐	moisture content [g/100 g], crude protein (N x 5,7) [g/100 g], ash [g/100 g], starch [g/100 g], wet gluten [g/100 g], falling number [s], total acid (pH 8.5) calculated as lactic acid [g/100 g]	
1121040	**Butter biscuit**	☐	ash [g/100 g], dry matter [g/100 g], crude protein (N x 6,25) [g/100 g], total fat [g/100 g], semimicro butyric acid number [-], free butyric acid [g/100 g fat], butyric acid methyl ester [g/100 g fat], milk fat [g/100 g], starch [g/100 g], cholesterol [mg/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g]	
1151016	**Mineral oil in low-fat and starch-rich foodstuff**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
Infant formula				
1101010	**Milk powder IMF part 1**	☐	fat [g/100g], crude protein (N x 6,25) [g/100g], ash [g/100g], moisture content [g/100g], retinol (vitamin A) as all-E-retinol [µg/100g], total ascorbic acid (vitamin C) [mg/100g]	
1101011	**Milk powder IMF part 2**	☐	sodium (Na) [mg/100g], potassium (K) [mg/100g], calcium (Ca) [mg/100g], magnesium (Mg) [mg/100g], phosphorus (P) [mg/100g], iron (Fe) [mg/100g], copper (Cu) [µg/100g], zinc (Zn) [mg/100g], manganese (Mn) [µg/100g]	
1121153	**PFAS in baby food**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/kg], total perfluorooctanoic acid (CAS 335 67-1) [ng/kg], total perfluorononanoic acid (CAS 375-95-1) [ng/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/kg]	

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
	Declaration nutrition values		on request: info@drrr.de
1121044	**Declaration nutrition values with 2 different food stuff**	energy value [kJ/100 g], protein [g/100 g], carbohydrate [g/100 g], sugar [g/100 g], fat [g/100 g], saturated fatty acids [g/100 g], fibre [g/100 g], salt [g/100 g]	
	Animal feed		
1121112	**Ingredients animal feed (round 1)**	moisture content [g/100 g], crude protein (N x 6,25) [g/100 g], crude oil [g/100 g], crude ash [g/100 g], crude fiber [g/100 g], total sugar (anhydrous) [g/100 g], lactose (monohydrate) [g/100 g], starch [g/100 g], ash (insoluble in hydrochloric acid) [g/100 g], calcium carbonate [g/100 g]	
	Honey and beeswax		
1121047	**Honey**	diastase number acc. to Schade [-], proline [mg/kg], hydroxymethylfurfural (CAS 67-47-0) [mg/kg], electrical conductivity [mS/cm], moisture [g/100 g], glycerin [mg/kg], ethanol (CAS 64-17-5) [mg/kg], pH value [-]	
1121076	**Pyrrolizidine alkaloids in honey**	Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine	
	Cocoa and chocolate		
1121048	**Chocolate**	total fat [g/100 g], milk fat [g/100 g], crude protein (N x 6,25) [g/100 g], water content [g/100 g], lactose (monohydrate) [g/100 g], sucrose (anhydrous) [g/100 g], theobromine [mg/100 g], caffeine [mg/100 g], dry matter [g/100 g], acrylamide (CAS 79-06-1) [µg/kg]	
1151053	**Mineral oil in cocoa butter and chocolate**	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
	Fats, oils and oilseeds		
1121068	**Edible fat**	iodine value [g iodine / 100 g fat], acid value [mg KOH/g fat], peroxide value [mEq active oxygen/kg], saponification value [mg KOH/g fat], free fatty acids [mg/100 g], p-anisidine value [AV], Refractive Index [nD], water content [g/100 g]	
1121089	**PAHs in animal and vegetable fats and oils**	benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], sum of PAHs [µg/kg]	
1151017	**Mineral oil in edible fats**	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
1151017	**Mineral oil in edible oils**	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	

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Reference material - organoleptic

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
	Nonalcoholic beverages		on request: info@drrr.de
3321001	**Drinking water (TON, TFN)**	☐ Threshold odour number (TON)	
3321002	**Drinking water (TON, TFN)**	☐ Threshold flavour number (TFN)	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
					on request: info@drrr.de
Milk and cream					
2201003	**E.coli milk**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201004	**Enterobacteriaceae milk**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201005	**Enumeration of aerobic spores in milk**	☐	aerobic spores [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201006	**Detection of Campylobacter spp. in milk**	☐	Campylobacter spp. (pos./neg.)	**risk group 2**	
2201076	**Psychrotrophic bacteria milk**	☐	psychrotrophic total count (7°C) [cfu/g], psychrotrophic total count (21°C) [cfu/g]	**risk group 1**	
2201074	**Enumeration of yeasts in milk**	☐	yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201048	**detection of B. cereus in milk**	☐	Vibrio parahaemolyticus (pos./neg.)	**risk group 2**	
2201108	**Detection B.cereus milk**	☐	B.cereus qualitative [-] (pos./neg.)	**risk group 2**	
1101025	**Milk (residues)**	☐	Chloramphenicol (CAS 56-75-7) [µg/kg], PCB 101 (CAS 37680-73-2) [(mg/kg) fat], trichlormethane (CAS 67-66-3) [mg/kg], aflatoxin M1 [µg/kg], Streptomycin (CAS 57-92-1) [µg/l], tetracycline (CAS 60-54-8) [µg/kg]		
Milk products (other)					
2201101	**Enumeration of characteristic microorganisms in yoghurt**	☐	Lactobacillus bulgaricus [cfu/g], Streptococcus thermophilus [cfu/g]	**risk group 1**	
Cheese					
2201007	**Enumeration of E. coli in cheese**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201008	**Detection of Listeria in cheese**	☐	L. monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201009	**Enumeration of enterobacteriaceae in cheese**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201010	**Enumeration of moulds in cheese**	☐	moulds [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201011	**Enumeration of yeasts in cheese**	☐	yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201012	**Enumeration of coagulase-pos. staphylococcus in cheese**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201013	**Enumeration of B. cereus in cheese**	☐	B.cereus [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
1111012	**Processed cheese (natamycin, aflatoxin)**	☐	natamycin (CAS 7681-93-8) [mg/kg], aflatoxin M1 [µg/kg]		
Ice-cream					
2201063	**Enumeration of enterobacteriaceae in ice cream**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201065	**Detection of Salmonella spp. in ice cream**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201064	**Enumeration of E. coli in ice cream**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201066	**Enumeration of L. monocytogenes in ice cream**	☐	L. monocytogenes qualitative (pos./neg.)	**risk group 2**	

[*] = Sometimes we used more than one method per parameter. The values of the germ contens varies for each material from 10^2 to 10^5 KbE/g or KbE/ml and can be asked before order.

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
	Milk powder				on request: info@drrr.de
2201014	**Enumeration of coliform bacteria in milk powder**	☐	Coliforms [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201015	**Moulds milk powder**	☐	moulds [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201016	**Yeasts milk powder**	☐	yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201017	**Enumeration of E. coli in milk powder**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201018	**Enumeration of Enterobacteriaceae in milk powder**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201019	**Enumeration of enterococci in milk powder**	☐	Enterococcus [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201020	**Enumeration of lactic acid bacteria in milk powder**	☐	lactobacilli (microaerophilic) [cfu/g], aerobic total count [cfu/g], lactobacilli (aerobic) [cfu/g]	**risk group 1**	
2201021	**Detection of Shigella spp. in milk powder**	☐	Shigella spp. (pos./neg.)	**risk group 2**	
2201022	**Enumeration of clostridia in milk powder**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic , sulfite-reducing spores [cfu/g], C.perfringens [cfu/g]	**risk group 2**	
2201083	**Detection of clostridia in milk powder**	☐	Clostridia spp. (pos./neg.)	**risk group 2**	
2201023	**Enumeration of B. cereus in milk powder**	☐	B.cereus [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201024	**Detection of Cronobacter spp. in milk powder**	☐	Cronobacter spp. (pos./neg.)	**risk group 2**	
2201025	**Salmonella spp. milk powder**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201026	**Enumeration of coagulase-pos. staphylococcus in milk powder**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201078	**Detection of coagulase-pos. staphylococcus in milk powder**	☐	coagulase-positive Staphylococcus qualitative (pos./neg.)	**risk group 2**	
2201028	**Listeria milk powder qualitative**	☐	L.monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201027	**Listeria milk powder quantitative**	☐	L.monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201062	**Enumeration of thermophilic bacteria (55°C) in milk powder**	☐	thermophilic aerobic total count (55°C, vegetative) [cfu/g], thermoresistent spores of aerobic, thermophilic bacteria [cfu/g]	**risk group 1**	
2201080	**Enumeration of anaerobic mesophilic spores in milk powder**	☐	anaerobic mesophilic spores [cfu/g], anaerobic total count [cfu/g]	**risk group 2**	
2201082	**Detection of Pseudomonas spp. in milk powder**	☐	Pseudomonas spp. qualitative (pos./neg.)	**risk group 2**	

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
	Meat products				on request: info@drrr.de
2201038	**E.coli ground meat**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201039	**Enterobacteriaceae ground meat**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201040	**Enumeration of lactic acid bacteria in ground meat**	☐	lactobacilli (aerobic) [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201041	**Enumeration of coagulase-pos. staphylococcus in ground meat**	☐	coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201042	**Enumeration of Pseudomonas spp. in ground meat**	☐	Pseudomonas spp. [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201043	**Salmonella spp. ground meat**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201044	**Enumeration of Listeria in ground meat**	☐	L. monocytogenes [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201045	**Listeria ground meat qualitative**	☐	L. monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201046	**Detection of Campylobacter spp. in poultry**	☐	Campylobacter spp. (pos./neg.)	**risk group 2**	
2201107	**Enumeration of Campylobacter spp. in poultry**	☐	Campylobacter spp. quantitative [CFU/g]	**risk group 2**	
2201081	**Enumeration of coliform bacteria in ground meat**	☐	Coliforms [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201084	**Enumeration of clostridia in ground meat**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic , sulfite-reducing spores [cfu/g], C.perfringens [cfu/g]	**risk group 2**	
1121056	**Beef, pork, horse**	☐	identification of species, relative amount beef [%], relative amount pork [%], relative amount horse [%]		
1121057	**Porcine and beef DNA in gelatine**	☐	identification of the animal species pork, identification of the animal species beef		
1121096	**Porcine DNA in Candy**	☐	identification of the animal species pork		

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
					on request: info@drrr.de
Egg products					
2201037	**Enumeration of Enterobacteriaceae in egg products**	☐	Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201056	**Detection of Salmonella spp. in egg products**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201057	**Enumeration of E. coli in egg products**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
Fish & seafood					
2201047	**Fish and seafood - detection Yersinia enterocolitica**	☐	Yersinia enterocolitica (pos./neg.)	**risk group 2**	
2201060	**Fish and seafood - detection of Salmonella spp.**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
Infant formula					
2201093	**Enterobacteriaceae infant formula (powder) qualitative**	☐	Enterobacteriaceae (pos./neg.)	**risk group 1**	
Food matrices (other)					
2201050	**Detection of Salmonella spp. in spices**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201052	**Ready-to-eat meals - detection of Listeria**	☐	L. monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201059	**Salmonella spp. Herbs**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
Animal feed					
2201053	**Enumeration von Clostridia in animal feed**	☐	sulfite-reducing Clostridia (vegetative) [cfu/g], lactobacilli (anaerobic) [cfu/g], anaerobic mesophilic sulfite-reducing spores [cfu/g], anaerobic mesophilic total spores (nonselective) [cfu/g]	**risk group 2**	
2201054	**Detection of Salmonella spp. in animal feed**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	
2201109	**Detection of Listeria spp. in animal feed**	☐	Listeria spp. qualitative (pos./neg.)	**risk group 2**	
Honey and beeswax					
1121078	**GMOs in honey**	☐	detection of screening elements P-35S, T-NOS and P-FMV		

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
	Fruit & vegetables products				on request: info@drrr.de
2201029	**Moulds fruit preparation quantitative**	☐	moulds [cfu/g]	**risk group 1**	
2201030	**Moulds fruit preparation qualitative**	☐	moulds qualitative (pos./neg.)	**risk group 1**	
2201031	**Yeasts fruit preparation quantitative**	☐	yeats [cfu/g]	**risk group 1**	
2201032	**Yeasts fruit preparation qualitative**	☐	yeats qualitative (pos./neg.)	**risk group 1**	
2201033	**Enumeration of Listeria in vegetables**	☐	L. monocytogenes [cfu/g], aerobic total count [cfu/g]	**risk group 2**	
2201034	**Detection of Listeria in vegetables**	☐	L. monocytogenes qualitative (pos./neg.)	**risk group 2**	
2201067	**Enumeration of osmophilic yeasts in sweets**	☐	osmophilic yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201068	**Enumeration of osmophilic moulds in sweets**	☐	osmophilic moulds [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201102	**Enumeration of yeasts in fruits**	☐	yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201103	**Enumeration of moulds in fruits**	☐	moulds [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
	Nonalcoholic beverages				
2201035	**Enumeration of E. coli in fruit juice**	☐	E.coli [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201058	**Alicyclobacillus spp. fruit juice concentrate**	☐	Alicyclobacillus spp. (pos./neg.)	**risk group 1**	
2201069	**Enumeration of yeasts in fruit juice concentrate**	☐	yeasts [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201070	**Enumeration of moulds in fruit juice concentrate**	☐	moulds [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201071	**Enumeration of lactic acid bacteria in fruit juice**	☐	lactic acid bacteria (aerobic) [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201072	**Acetic acid bacteria fruit juice concentrate**	☐	acetic acid bacteria [cfu/g], aerobic total count [cfu/g]	**risk group 1**	
2201090	**Spoiling agents in fruit juice concentrate & compounds**	☐	spoiling organism quantitative [cfu/g], aerobic total count [cfu/g], spoiling organism qualitative	**risk group 1**	

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
	Mineral water and table water				on request: info@drrr.de
2221011	**Aerobic total count mineral water and table water**	☐	aerobic total count 37°C [KbE/ml], aerobic total count 20°C [KbE/ml]	**risk group 1**	
2221012	**Detection fecal streptococci in mineral- and table water**	☐	streptococci (faecal) qualitative (pos./neg.)	**risk group 1**	
2221013	**Detection E. coli in mineral- and table water**	☐	E.coli qualitative (pos./neg.)	**risk group 1**	
2221022	**Detection coliform bacteria in mineral- and table water**	☐	Coliforms qualitative (pos./neg.)	**risk group 1**	
2221014	**Detection Ps. aeruginosa in mineral- and table water**	☐	Ps.aeruginosa qualitative (pos./neg.)	**risk group 2**	
2221015	**Sulfite-reducing, spore-forming anaerobes mineral water**	☐	sulfite-reducing, spore-forming anaerobes qualitative (pos./neg.)	**risk group 2**	
	Cocoa and chocolate				
2201049	**Detection of Salmonella spp. in chocolate**	☐	Salmonella spp. (pos./neg.)	**risk group 2**	

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order form reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Quantity	material type / material description / article no.

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

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For reference materials labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

Please notice that we process orders only at a minimum order value of 50 €.

☐ An offer with the total costs is needed

☐ A Purchase order from the purchasing department will follow

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the order for the reference materials

	DRRR-customer number
	company
	additional line
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien GmbH
Reinhartser Straße 31 | 87437 Kempten
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99
www.DRRR.de | info@DRRR.de

ODIN - proficiency testing online

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

• Fast and easy online registration / online announcement in our online catalogue

• Direct management and booking of the proficiency testing

• Overview about the registered proficiency testing schemes

• Fast and secure submission of your results via ODIN

• Online access to individual customers reports and certificates

• Supervisor rights available to overview all PTs of a multi-site company

• Saving of costs through booking and submission of your results via ODIN

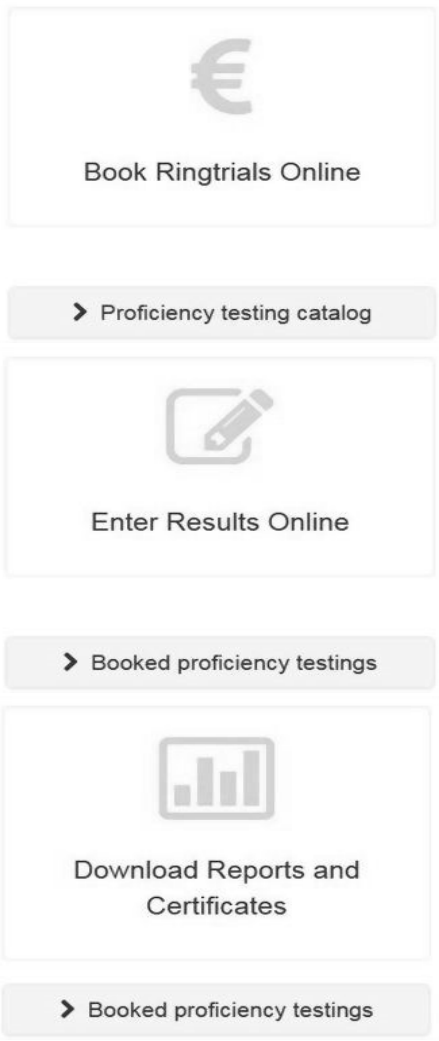
Secure payment with IRIS (Internet Remuneration Information Service).

• Easy and safe payment by credit card

• Overview about all invoices

• Fast and secure online access

You can also pay your invoice via banktransfer or bank check.



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Proficiency testing organisation

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

• A precise planning and organisation of each proficiency testing round

• 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

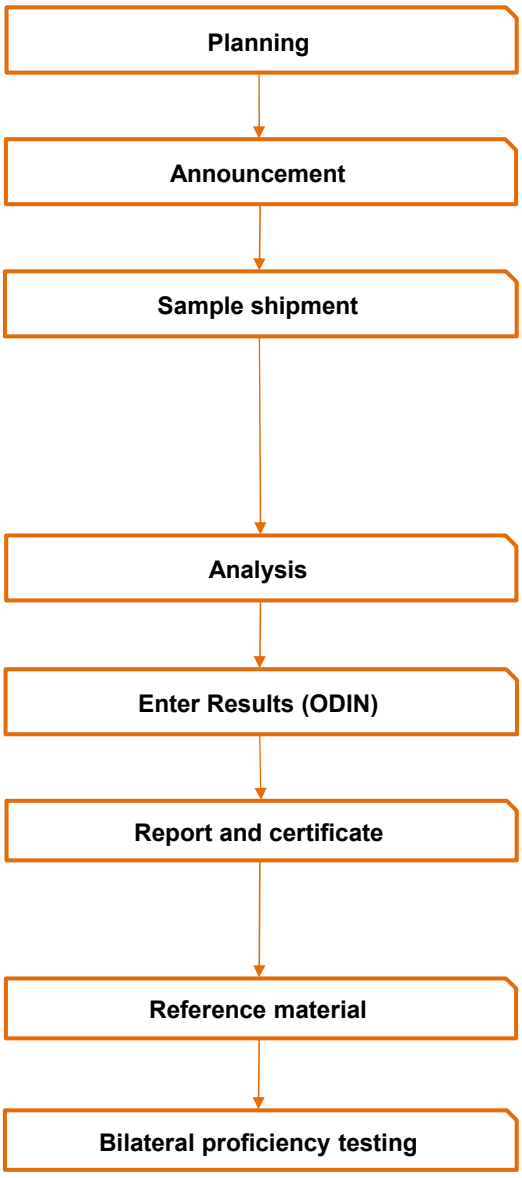
• After receiving the samples you will have a period of approximately 4 weeks for analysing.

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

• After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



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Benefits of proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Why take part in proficiency testing?

• Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers

• Participants can compare, assure and improve their own performance and quality against other laboratories worldwide

• Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories

• Saving on the costs of testing

• Unquestionable lab performance towards customers, authorities and certification authorities

• Saving on the costs of lab development and maintenance

• Saving on the costs of lab development and maintenance

• Saving on production costs by avoiding waste of raw material

Your benefits in DRRR proficiency testing schemes

• Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories

• Saving the costs, because you have the opportunity to analzye more samples and more parameters in one proficiency testing

• External demonstration of your performance with the results of the proficiency testing

• Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence

• Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



Image source:
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Statistical methods

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogeneous and stable sample material

Laboratory performance:

by calculation of the following paramters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics
(Hampel estimator, Q-method)
- Robust statistics
(Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the chi²-fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



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z'-score > 2: What to do?

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance. These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.
You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.
(* normally not longer than 1 - 2 weeks)
The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

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quality management / quality assurance

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager).
Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.

Please do not hesitate to contact us.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarties for the IR calibartion of selected food will be discussed. The specific peculiarties of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical excericise calibration data sets will be testes for suitability and critical data sets will be identifed.

Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test, qui²-adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.

Inhouse-Training

We consider lectures, training and seminars as in important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

For special requirements we also offer customised training programmes.

For questions about contents and conditions do no hesitate to contact us.

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Sales terms and delivery conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.
Terms of payment: 8 days net, without deduction
Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:
Raiffeisenbank in Allgäuer Land / bank code 733 692 64
Account 102350 / IBAN DE 94733692640000102350
BIC code: GENO DEF1DTA
Sales tax ID no. DE254613132
tax number 127/124/32207

Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked “frozen” are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

Terms of delivery (risk group 1, 2 and 3**)

Proficiency tests or reference materials marked with “Risk Group 1” are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with “risk group 2, or risk group 3**”, we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.

§ 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.
Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.
If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations. The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

§ 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.
The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.
The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.
A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

Cancelation notification period:	Permanent registration (D)
	single (one-time) registration (E)
up to 3 months before the proficiency testing	no costs (D)
	50,00 € (E)
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price (E)
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

§ 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.
Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).
The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.
No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order.
Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.
The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.
The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.
The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.
If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.
The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.
The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.
All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.
In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.
All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.
The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.
For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

§ 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.
Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.
All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded. Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.
The goods remain the property of DRRR until they have been paid for in full by the customer.
The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.
Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.
The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction). Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.
Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

§ 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.
The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.
The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.
If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

§ 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.
The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.
The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

§ 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:
The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.
Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.
Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.
The warranty is limited to the stated expiration date of the reference materials.
This applies to: ieLab, TGZ AQS Baden-Württemberg

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Consumer goods and Packaging

chemical-physical

organoleptic

immunological, molecular biological & microbiological

product catalogue 2026



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DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 1100 PT's per year

Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

Accredited PT-provider

Accreditation DIN EN ISO/IEC 17043:2023 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2023. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-PP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

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Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

National and international committees and working groups

Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

Matrix reference

Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

Evaluation

Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

Market-leading statistical evaluation

©DRRR

Individual Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

Benefit from our high quality standards in all important fields of testing.

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

Get in touch with us.

We look forward to working with you!

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Plastics, plastic film - NEW!				Login or register
2011386	**Plastics - emission of VOC (micro-scale chamber)**	☐	VOC [µg/(m³*h)], aldehydes [µg/(m³*h)], ketones [µg/(m³*h)] (all quantitative)	Sep-26	
2011387	**ISO 16000-3,-6**	☐	Emissions of carbonyl - and organic compounds	Oct-26	
	Emission testing on consumer goods is becoming increasingly important. It is used to ensure that legal regulations are met and that products comply with the state-of-the-art-standards. In addition to a PT for emission testing in accordance with ISO 16000-3,-6, the DRRR offers you a PT for emission testing using a microchamber. Here, the test can be carried out in accordance with e.g. ISO 12219-3 or ASTM D7706-16.				
2011388	**Plastics - UV absorber**	☐	UV 320 (CAS 3846-71-7) [mg/kg], UV 326 (CAS 3896-11-5) [mg/kg], UV 327 (CAS 3864-99-1) [mg/kg], UV 328 (CAS 25973-55-1) [mg/kg], UV 350 (CAS 36437-37-3) [mg/kg] (all quantitative)	Sep-26	
2011389	**Plastics - brominated flame retardants**	☐	2-bromobiphenyl (CAS 2052-07-5) [mg/kg], 2,2',3,3',4,4',5,5'-octabromobiphenyl (CAS 67889-00-3) [mg/kg], 2,2',3,3',4,4',5,5',6-nonabromobiphenyl (CAS 69278-62-2) [mg/kg], decabromodiphenyl ether (CAS 1163-19-5) [mg/kg], 2,2',3,4,4',5,5',6-octabromodiphenyl ether (CAS 337513-72-1) [mg/kg], 2,2',3,4,4',5',6-heptabromodiphenyl ether (CAS 207122-16-5) [mg/kg], 2,2',4,4'-tetrabromodiphenyl ether (CAS 5436-43-1) [mg/kg], 2,2',4,4',5,6'-hexabromodiphenyl ether (CAS 207122-15-4) [mg/kg], 2,2',4,5'-tetrabromobiphenyl (CAS 60044-24-8) [mg/kg], 2,2',4,5',6-pentabromobiphenyl (CAS 59080-39-6) [mg/kg], 2,2',5-tribromobiphenyl (CAS 59080-34-1) [mg/kg], 2,3,3',4,4',5,5'-heptabromobiphenyl (CAS 88700-06-5) [mg/kg], 2,5-dibromobiphenyl (CAS 57422-77-2) [mg/kg], 3,3',4,4',5,5'-hexabromobiphenyl (CAS 6044-26-0) [mg/kg], decabromobiphenyl (CAS 13654-09-6) [mg/kg], tetrabromobisphenol A (CAS 79-94-7) [mg/kg] (all quantitative)	Dec-26	
2011385	**Mineral oil in plastics**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg], PE PO(S)H [mg/kg] (all quantitative)	Jul-26	
	Plastics, plastic film - identification				
2011151	**Plastic - screening of SVHC**	☐	identification of various SVHC (qual.), quantification of the identified SVHC [mg/kg] (quant.)	May-26	
2011152	**Plastic - screening of NIAS**	☐	identification of various IAS & NIAS (qual.), quantification of the identified IAS & NIAS [µg/ml] (quant.)	Jul-26	
2010210	**Plastic - identification of granulate**	☐	identification of plastic granules [-] (all qualitative)	Mar-26	
2010312	**Plastic - identification of multi-layer plastic films**	☐	identification of multi-layer films [-] (all qualitative)	Mar-26	
2010115	**Plastic - identification of mono-layer plastic films**	☐	identification of mono-layer films (all qualitative)	Sep-26	
2010963	**Plastic - identification of microplastic**	☐	identification of microplastics (all qualitative)	Dec-26	
2010167	**Plastic - identification of different PA types**	☐	identification of PA types (all qualitative)	Mar-26	
2011261	**Materials in contact with drinking water - leachable organic substances (EN 15768)**	☐	identification of various leachable organic substances (qual.), semi-quantification of the identified leachable organic substances [µg/l] (quant.)	Apr-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

[*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our online portal (ODIN).

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Plastics, plastic film - overall migration				Login or register
2010311	**Plastic - overall migration (pouch) EN 1186-3, EN 1186-2**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	Sep-26	
2010073	**Plastic - overall migration (one-sided contact) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (dist. water) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	Oct-26	
2011003	**Plastic - overall migration (fatty test food, one-sided contact) (EN 1186-3)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²] (all quantitative)	Oct-26	
2010572	**Plastic - overall migration (fatty test food, total immersion) (EN 1186-3)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²] (all quantitative)	Mar-26	
2010570	**Plastic - overall migration (article filling) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/kg], overall migration (ethanol 20%) [mg/kg], overall migration (ethanol 50%) [mg/kg], overall migration (acetic acid 3%) [mg/kg] (all quantitative)	Jun-26	
2010304	**Plastic - overall migration (total immersion) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (dist. water) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	Nov-26	
2011207	**Plastic - overall migration (total immersion) (EN 1186-3) (round 2)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (dist. water) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	May-26	
2010622	**Plastic, silicone - overall migration using MPPO**	☐	overall migration: 1. migration (MPPO) [mg/dm²], overall migration: 2. migration (MPPO) [mg/dm²], overall migration: 3. migration (MPPO) [mg/dm²] (all quantitative)	Jan-26	
2010574	**Plastic - overall migration at high temperatures (EN 1186-13)**	☐	overall migration (vegetable oil) [mg/dm²] (all quantitative)	Mar-26	
2010322	**Plastic - overall migrat on synthetic samples**	☐	overall migrate (ethanol 10%) [mg], overall migrate (ethanol 20%) [mg], overall migrate (ethanol 50%) [mg], overall migrate (acetic acid 3%) [mg], overall migrate (dist. water) [mg] (all quantitative)	Dec-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Plastics, plastic film - specific migration				Login or register
2010306	**Plastic - specific migration 1-octene**	☐	1-Octen (CAS 111-66-0) (ethanol 50%) [mg/kg], 1-Octen (CAS 111-66-0) (vegetable oil) [mg/kg], 1-Octen (CAS 111-66-0) (ethanol 95%) [mg/kg] (all quantitative)	Nov-26	
2010308	**Plastic - specific migration acrylonitrile (EN 13130-3)**	☐	acrylonitrile (ethanol 10%) [mg/kg], acrylonitrile (acetic acid 3%) [mg/kg], acrylonitrile (dist. water) [mg/kg], acrylonitrile (vegetable oil) [mg/kg] (all quantitative)	Aug-26	
2010075	**Plastic - specific migration caprolactam**	☐	caprolactam (ethanol 10%) [mg/dm²], caprolactam (ethanol 20%) [mg/dm²], caprolactam (ethanol 50%) [mg/dm²], caprolactam (acetic acid 3%) [mg/dm²], caprolactam (dist. water) [mg/dm²], caprolactam (vegetable oil) [mg/dm²] (all quantitative)	Dec-26	
2010628	**Plastic - specific migration melamine**	☐	melamine (CAS 108-78-1) (ethanol 10%) [mg/kg], melamine (CAS 108-78-1) (acetic acid 3%) [mg/kg], melamine (CAS 108-78-1) (dist. water) [mg/kg] (all quantitative)	Aug-26	
2010464	**Plastic - specific migration metals part 1**	☐	antimony (Sb) (dist. water) [mg/kg], antimony (Sb) (acetic acid 3%) [mg/kg], arsenic (As) (dist. water) [mg/kg], arsenic (As) (acetic acid 3%) [mg/kg], cadmium (Cd) (dist. water) [mg/kg], cadmium (Cd) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], nickel (Ni) (dist. water) [mg/kg], nickel (Ni) (acetic acid 3%) [mg/kg] (all quantitative)	Oct-26	
2010466	**Plastic - specific migration metals part 2**	☐	chromium (Cr) (dist. water) [mg/kg], chromium (Cr) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg], iron (Fe) (dist. water) [mg/kg], iron (Fe) (acetic acid 3%) [mg/kg], barium (Ba) (dist. water) [mg/kg], barium (Ba) (acetic acid 3%) [mg/kg], zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg] (all quantitative)	Oct-26	
2010401	**Plastic - specific migration primary aromatic amines 1**	☐	4,4'-methylenedianiline (CAS 101-77-9) (dist. water) [µg/kg], 4,4'-methylenedianiline (CAS 101-77-9) (acetic acid 3%) [µg/kg], o-toluidine (CAS 95-53-4) (dist. water) [µg/kg], o-toluidine (CAS 95-53-4) (acetic acid 3%) [µg/kg], benzidine (CAS 92-87-5) (dist. water) [µg/kg], benzidine (CAS 92-87-5) (acetic acid 3%) [µg/kg], aniline (CAS 62-53-3) (dist. water) [µg/kg], aniline (CAS 62-53-3) (acetic acid 3%) [µg/kg], o-anisidine (CAS 90-04-0) (dist. water) [µg/kg], o-anisidine (CAS 90-04-0) (acetic acid 3%) [µg/kg] (all quantitative)	May-26	
2010403	**Plastic - specific migration primary aromatic amines 2**	☐	2-methoxyaniline (CAS 90-04-0) (ethanol 10%) [µg/kg], 2-methoxyaniline (CAS 90-04-0) (ethanol 50%) [µg/kg], 4-chloraniline (CAS 106-47-8) (ethanol 10%) [µg/kg], 4-chloraniline (CAS 106-47-8) (ethanol 50%) [µg/kg], 2-napthylamine (CAS 91-59-8) (ethanol 10%) [µg/kg], 2-napthylamine (CAS 91-59-8) (ethanol 50%) [µg/kg], 3,3'-dimethylbenzidine (CAS 119-93-7) (ethanol 10%) [µg/kg], 3,3'-dimethylbenzidine (CAS 119-93-7) (ethanol 50%) [µg/kg] (all quantitative)	Dec-26	
2010310	**Plastic - specific migration terephthalic acid**	☐	terephthalic acid (ethanol 10%) [mg/kg], terephthalic acid (ethanol 50%) [mg/kg], terephthalic acid (acetic acid 3%) [mg/kg], terephthalic acid (dist. water) [mg/kg], terephthalic acid (vegetable oil) [mg/kg] (all quantitative)	Aug-26	
2010630	**Plastic - specific migration vinyl acetate**	☐	vinyl acetate (CAS 108-05-4) (ethanol 10%) [mg/kg], vinyl acetate (CAS 108-05-4) (acetic acid 3%) [mg/kg], vinyl acetate (CAS 108-05-4) (dist. water) [mg/kg], vinyl acetate (CAS 108-05-4) (vegetable oil) [mg/kg] (all quantitative)	Mar-26	
2011258	**Plastic - specific migration antioxidant**	☐	Irganox 1076 (CAS 2082-79-3) (ethanol 95%) [mg/kg] (all quantitative)	Oct-26	
2010578	**Plastic - specific migration bisphenol**	☐	bisphenol A (CAS 80-05-7) (ethanol 10%) [mg/kg], bisphenol A (CAS 80-05-7) (acetic acid 3%) [mg/kg], bisphenol B (CAS 77-40-7) (ethanol 10%) [mg/kg], bisphenol B (CAS 77-40-7) (acetic acid 3%) [mg/kg], bisphenol F (CAS 620-92-8) (ethanol 10%) [mg/kg], bisphenol F (CAS 620-92-8) (acetic acid 3%) [mg/kg], bisphenol S (CAS 80-09-1) (ethanol 10%) [mg/kg], bisphenol S (CAS 80-09-1) (acetic acid 3%) [mg/kg], bisphenol AF (CAS 1478-61-1) (ethanol 10%) [mg/kg], bisphenol AF (CAS 1478-61-1) (acetic acid 3%) [mg/kg] (all quantitative)	Sep-26	
2010222	**Plastics - specific migration di-ethylene glycol (EN 13130-7)**	☐	di-ethylene glycol (ethanol 10%) [mg/kg], di-ethylene glycol (ethanol 20%) [mg/kg], di-ethylene glycol (ethanol 50%) [mg/kg], di-ethylene glycol (acetic acid 3%) [mg/kg], di-ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-26	
2010220	**Plastics - specific migration ethylene glycol (EN 13130-7)**	☐	ethylene glycol (ethanol 10%) [mg/kg], ethylene glycol (ethanol 20%) [mg/kg], ethylene glycol (ethanol 50%) [mg/kg], ethylene glycol (acetic acid 3%) [mg/kg], ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-26	

The testing of bisphenol A, ethylene glycol, and di-ethylene glycol has previously been offered as a test in food simulants. From 2026 on, these PTs will be adapted to determine the specific migration from a polymer material into the food simulants. The PT "plastic – specific migration bisphenols" will be expanded to include bisphenols B, S, F, and AF in addition to bisphenol A.

	Plastics, plastic film - food simulating matrices				
2011102	**Hexamethylenediamine in food simulants (CEN TS 13130-21)**	☐	hexamethylene diamine (ethanol 10%) [mg/kg], hexamethylene diamine (dist. water) [mg/kg], hexamethylene diamine (acetic acid 3%) [mg/kg] (all quantitative)	Oct-26	
2010634	**Acetaldehyde in food simulants**	☐	acetaldehyde (CAS 75-07-0) (water) [µg/l] (all quantitative)	Jul-26	
2010580	**Formaldehyde in food simulants (CEN TS 13130-23)**	☐	formaldehyde (CAS 50-00-0) (ethanol 10%) [mg/kg], formaldehyde (CAS 50-00-0) (dist. water) [mg/kg], formaldehyde (CAS 50-00-0) (acetic acid 3%) [mg/kg], formaldehyde (CAS 50-00-0) (vegetable oil) [mg/kg] (all quantitative)	Aug-26	

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Proficiency testing - chemical-physical

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Plastics, plastic film - content determination

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
2011015	**Plastic, silicone - volatile fractions**	☐	Mass fraction of volatile substances [% (m/m)] (all quantitative)	Jun-26	
2010638	**Plastic - 1,3 butadiene content (EN 13130-4)**	☐	1,3-butadiene (CAS 106-99-0) [mg/kg polymer] (all quantitative)	May-26	
2010636	**Plastic - bisphenol content**	☐	bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg], bisphenol AF (CAS 1478-61-1) [µg/kg] (all quantitative)	Apr-26	
2010965	**Plastic - elemental determination by XRF**	☐	arsenic (As) [mg/kg], bromine (Br) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg], mercury (Hg) [mg/kg], lead (Pb) [mg/kg], sulfur (S) [mg/kg], antimony (Sb) [mg/kg], tin (Sn) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Sep-26	
2010405	**Plastic - PAH content**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	May-26	
2010582	**Plastic - phthalate content**	☐	DBP (CAS 84-74-2) [g/100g], BBP (CAS 85-68-7) [g/100g], DEHP (CAS 117-81-7) [g/100g], DNOP (CAS 117-84-0) [g/100g], DINP (CAS 28553-12-0) [g/100g], DIDP (CAS 26761-40-0) [g/100g], DEP (CAS 84-66-2) [g/100g], DMP (CAS 131-11-3) [g/100g], DIBP (CAS 84-69-5) [g/100g], DPP (CAS 131-18-0) [g/100g], DHEXP (CAS 84-75-3) [g/100g], DCHP (CAS 84-61-7) [g/100g] (all quantitative)	Oct-26	
2010307	**Plastic - styrol oligomers in synthetic samples**	☐	1,3-diphenylpropane (CAS 1081-75-0) [µg/kg], 2,4-diphenyl-1-butene (CAS 16606-47-6) [µg/kg], trans-1,2-diphenylcyclobutane (CAS 20071-09-4) [µg/kg], 2,4,6-triphenyl-1-hexene (CAS 18964-53-9) [µg/kg], 1-Phenyl-4-(1'-Phenylethyl)Tetralin (CAS 26681-79-8) [µg/kg], cis-1,2-Diphenylcyclobutane (CAS 7694-30-6) [µg/kg] (all quantitative)	Dec-26	
2010584	**Plastic - vinylchloride in synthetic sample (ISO 6401)**	☐	vinyl chloride (CAS 75-01-4) [mg/l] (all quantitative)	Oct-26	
2011153	**Plastic - melamine content**	☐	melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-26	
2010426	**Plastic - VOC, SVOC**	☐	VVOC [mg/kg], VOC [mg/kg], SVOC [mg/kg] (all quantitative)	May-26	
2011329	**Plastic – chlorinated paraffins (SCCP, MCCP)**	☐	SCCP (C10-C13) [mg/kg], MCCP (C14-C17) [mg/kg] (all quantitative)	Oct-26	
2011254	**Plastic - elements**	☐	arsenic (As) [mg/kg], bromine (Br) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg], mercury (Hg) [mg/kg], lead (Pb) [mg/kg], sulfur (S) [mg/kg], antimony (Sb) [mg/kg], tin (Sn) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jun-26	
2011255	**Plastic - contaminants in recycled PET**	☐	limonene (CAS 138-86-3) [µg/g], acetaldehyde (CAS 75-07-0) [µg/g], benzene (CAS 71-43-2) [µg/g], 2-methyl-1,3-dioxolan (CAS 497-26-7) [µg/g] (all quantitative)	Nov-26	
2011256	**Plastic - residual solvents (part 1)**	☐	1-Butanol (CAS 71-36-3) [mg/m²], 2-Butanol (CAS 78-92-2) [mg/m²], 2-Butanone (CAS 78-93-3) [mg/m²], Butyl acetate (CAS 123-86-4) [mg/m²], Cyclohexane (CAS 110-82-7) [mg/m²], Cyclohexanone (CAS 108-94-1) [mg/m²], Ethanol (CAS 64-17-5) [mg/m²], 2-Ethoxyethanol (CAS 110-80-5) [mg/m²], Ethyl acetate (CAS 141-78-6) [mg/m²], Isobutyl acetate (CAS 110-19-0) [mg/m²], Methanol (CAS 67-56-1) [mg/m²], Methyl acetate (CAS 79-20-9) [mg/m²], 2-Methoxyethyl acetate (CAS 110-49-6) [mg/m²], Toluene (CAS 108-88-3) [mg/m²] (all quantitative)	Nov-26	
2011257	**Plastic - residual solvents (part 2)**	☐	2-Ethoxyethyl acetate (CAS 111-15-9) [mg/m²], Isopropyl acetate (CAS 108-21-4) [mg/m²], Propyl acetate (CAS 109-60-4) [mg/m²], 2-Methoxyethanol (CAS 109-86-4) [mg/m²], 1-Methoxy-2-propanol (CAS 107-98-2) [mg/m²], 4-Methyl-2-pentanone (CAS 108-10-1) [mg/m²], 2-Methyl-1-propanol (CAS 78-83-1) [mg/m²], Acetone (CAS 67-64-1) [mg/m²], 1-Propanol (CAS 71-23-8) [mg/m²], 2-Propanol (CAS 67-63-0) [mg/m²], Tetrahydrofuran (CAS 109-99-9) [mg/m²] (all quantitative)	Nov-26	
2011259	**Plastic - PFAS**	☐	total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total fluor (TF) [mg/kg], total organic fluor (TOF) [mg/kg] (all quantitative)	Nov-26	
2011260	**Plastic, silicone - siloxanes**	☐	octamethylcyclotetrasiloxanes (D4) (CAS 556-67-2), decamethylcyclopentasiloxane (D5) (CAS 541-02-6), dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6) (all quantitative)	Aug-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Paper and board				Login or register
2010318	**Mineral oil in cardboard**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOSH C10-C35 [mg/kg], MOAH C10-C35 [mg/kg] (all quantitative)	Nov-26	
2010586	**Migration of mineral oil from cardboard**	☐	MOSH C10-C16 [mg/dm²], MOSH C16-C20 [mg/dm²], MOSH C20-C25 [mg/dm²], MOSH C25-C35 [mg/dm²], MOAH C10-C16 [mg/dm²], MOAH C16-C25 [mg/dm²], MOAH C25-C35 [mg/dm²], MOSH C10-C35 [mg/dm²], MOAH C10-C35 [mg/dm²] (all quantitative)	Mar-26	
2010620	**Migration from paper, board using MPPO (EN 14338)**	☐	overall migration (MPPO) [mg/dm²] (all quantitative)	Nov-26	
	Proficiency Test for the analysis of mineral oil in foods, such as edible fats and oils, cocoa butter and chocolate, cheese and milk powder, can be found in our catalogue 'Food and Feed' or in the online catalogue (ODIN).				
2011124	**Paper, cardboard - PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg] (all quantitative)	Jul-26	
2011265	**Paper, cardboard - migration of PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) (ethanol 50%) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) (ethanol 50%) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) (ethanol 50%) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) (ethanol 50%) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) (ethanol 50%) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) (ethanol 50%) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) (ethanol 50%) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) (ethanol 50%) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) (ethanol 50%) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) (ethanol 50%) [µg/kg] (all quantitative)	Oct-26	
2010642	**Paper, cardboard - formaldehyde (EN 1541)**	☐	formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Jun-26	
2010644	**Paper, cardboard - glyoxal**	☐	glyoxal (CAS 107-22-2) [mg/kg] (all quantitative)	May-26	
2011147	**Paper, board - primary aromatic amines (EN 17163)**	☐	o-toluidine (CAS 95-53-4) [µg/l], benzidine (CAS 92-87-5) [µg/l], aniline (CAS 62-53-3) [µg/l], 3,3'-dichlorobenzidine (CAS 91-94-1) [µg/l], 2-methoxyaniline (CAS 90-04-0) [µg/l], 4-chloraniline (CAS 106-47-8) [µg/l], 2-napthylamine (CAS 91-59-8) [µg/l], 3,3'-dimethylbenzidine (CAS 119-93-7) [µg/l] (all quantitative)	Sep-26	
2011148	**Paper, board - phthalates (EN 16453)**	☐	DINP (CAS 28553-12-0) [mg/l], DEHP (CAS 117-81-7) [mg/l], DNOP (CAS 117-84-0) [mg/l], DIDP (CAS 26761-40-0) [mg/l], BBP (CAS 85-68-7) [mg/l], DBP (CAS 84-74-2) [mg/l], DIBP (CAS 84-69-5) [mg/l], DPP (CAS 131-18-0) [mg/l], DIHP (CAS 71888-89-6) [mg/l], DMEP (CAS 117-82-8) [mg/l] (all quantitative)	Jun-26	
2010452	**Paper, cardboard - 1,3-DCP and 3-MCPD**	☐	1,3-dichloro-2-propanol (CAS 96-23-1) [µg/l], 3-monochloro-1,2-propanediol (CAS 96-24-2) [µg/l] (all quantitative)	Jun-26	
2010456	**Paper, cardboard - cadmium, lead in aqueous extract (EN 12498)**	☐	cadmium (Cd) [µg/l], lead (Pb) [µg/l] (all quantitative)	Jul-26	
2011149	**Paper, board - mercury in aqueous extract (EN 12497)**	☐	mercury (Hg) [µg/l] (all quantitative)	Nov-26	
2011099	**Paper, cardboard - aluminium**	☐	aluminium (Al) [mg/l] (all quantitative)	Aug-26	
2010640	**Paper, board - pH value (ISO 6588-1, ISO 6588-2)**	☐	pH value (cold extraction) [-], pH value (hot extraction) [-] (all quantitative)	Nov-26	
2011263	**Paper, cardboard - melamine**	☐	melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-26	
2011264	**Paper, cardboard - preservatives**	☐	o-Phenylphenol (CAS 90-43-7) [mg/kg], BIT (CAS 2634-33-5) [mg/kg], MI (CAS 2682-20-4) [mg/kg], CMI (CAS 26172-55-4) [mg/kg] (all quantitative)	Jul-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Paper and board				Login or register
2010646	**Colour fastness of dyed paper (EN 646)**	☐	colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-] (all quantitative)	May-26	
2010648	**Colour fastness of fluorescent whitened paper (EN 648)**	☐	colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-] (all quantitative)	May-26	
2010448	**Testing of benzophenone in food simulating matrix**	☐	benzophenon (CAS 119-61-9) (ethanol 10%) [mg/kg], benzophenon (CAS 119-61-9) (ethanol 95%) [mg/kg] (all quantitative)	Apr-26	
2010454	**Paper, cardboard - PCBs (ISO 15318)**	☐	PCB 52 (CAS 35693-99-3) [mg/kg], PCB 101 (CAS 37680-73-2) [mg/kg], PCB 138 (CAS 35065-28-2) [mg/kg], PCB 28 (CAS 7012-37-5) [mg/kg], PCB 153 (CAS 35065-27-1) [mg/kg], PCB 180 (CAS 35065-29-3) [mg/kg] (all quantitative)	Sep-26	
2010460	**Thermal paper - bisphenol S**	☐	bisphenol S (CAS 80-09-1) [mg/kg paper] (all quantitative)	Aug-26	
2011011	**Paper, cardboard - total chlorine and organically bound chlorine (ISO 11480)**	☐	total chlorine [mg/kg], organically bound chlorine [mg/kg] (all quantitative)	Jul-26	
2010450	**Paper, cardboard - DIPN (EN 14719)**	☐	DIPN [mg/kg] (all quantitative)	May-26	
2010442	**Paper, cardboard - overall migration (fatty test food, solvent extract) (EN 15519)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²] (all quantitative)	Apr-26	
	Printing inks				
2010314	**Migration of printing ink constituents (round 1)**	☐	CAS 94108-97-1 (ethanol 50%) [µg/kg], CAS 94108-97-1 (ethanol 95%) [µg/kg], CAS 57472-68-1 (ethanol 50%) [µg/kg], CAS 57472-68-1 (ethanol 95%) [µg/kg], CAS 119313-12-1 (ethanol 50%) [µg/kg], CAS 119313-12-1 (ethanol 95%) [µg/kg], CAS 84434-11-7 (ethanol 50%) [µg/kg], CAS 84434-11-7 (ethanol 95%) [µg/kg] (all quantitative)	Jul-26	
2010316	**Migration of printing ink constituents (round 2)**	☐	CAS 272460-97-6 (ethanol 50%) [µg/kg], CAS 272460-97-6 (ethanol 95%) [µg/kg], CAS 162881-26-7 (ethanol 50%) [µg/kg], CAS 162881-26-7 (ethanol 95%) [µg/kg], CAS 42978-66-5 (ethanol 50%) [µg/kg], CAS 42978-66-5 (ethanol 95%) [µg/kg], CAS 15625-89-5 (ethanol 50%) [µg/kg], CAS 15625-89-5 (ethanol 95%) [µg/kg] (all quantitative)	Nov-26	
3010019	**Printing ink constituents synthetic samples – initiators and monomers**	☐	CAS 272460-97-6 [µg/kg], CAS 162881-26-7 [µg/kg], CAS 119344-86-4 [µg/kg], CAS 84434-11-7 [µg/kg], Di-TMPTA (CAS 94108-97-1) [µg/kg], DPGDA (CAS 57472-68-1) [µg/kg], TPGDA (CAS 42978-66-5) [µg/kg], TMPTA (CAS 15625-89-5) [µg/kg] (all quantitative)	Nov-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
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Kitchen utensils and dishes - NEW!					
2011408	**Ceramics - metals**	☐	lead (Pb) [mg/kg], arsenic (As) [mg/kg], antimony (Sb) [mg/kg], nickel (Ni) [mg/kg], cobalt (Co) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg], aluminium (Al) [mg/kg], barium (Ba) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jul-26	
2011356	**Glass - Release of lead and cadmium (ASTM C927-80)**	☐	lead (Pb) [mg/l], cadmium (Cd) [mg/l] (all quantitative)	Oct-26	
2011357	**Metallic coatings - chromium (VI)**	☐	chromium (VI) [µg/cm²] (all quantitative)	Oct-26	
Kitchen utensils and dishes					
2010407	**Release of metals from enamel (ISO 4531)**	☐	cadmium (Cd) [µg/l], cobalt (Co) [µg/l], nickel (Ni) [µg/l], lead (Pb) [µg/l], lithium (Li) [µg/l], aluminium (Al) [µg/l], manganese (Mn) [µg/l] (all quantitative)	Oct-26	
2010411	**Ceramics - release of lead and cadmium (EN 1388-1)**	☐	lead (Pb) [mg/l], cadmium (Cd) [mg/l] (all quantitative)	Oct-26	
2010414	**Ceramics - specific migration metals**	☐	cobalt (Co) (4% acetic acid) [mg/l], cobalt (Co) (0,5% citric acid) [mg/l], aluminium (Al) (4% acetic acid) [mg/l], aluminium (Al) (0,5% citric acid) [mg/l], arsenic (As) (4% acetic acid) [mg/l], arsenic (As) (0,5% citric acid) [mg/l], barium (Ba) (4% acetic acid) [mg/l], barium (Ba) (0,5% citric acid) [mg/l], chromium (Cr) (4% acetic acid) [mg/l], chromium (Cr) (0,5% citric acid) [mg/l], nickel (Ni) (4% acetic acid) [mg/l], nickel (Ni) (0,5% citric acid) [mg/l], antimony (Sb) (4% acetic acid) [mg/l], antimony (Sb) (0,5% citric acid) [mg/l], zinc (Zn) (4% acetic acid) [mg/l], zinc (Zn) (0,5% citric acid) [mg/l] (all quantitative)	Oct-26	
2010171	**Metal - elemental determination by XRF**	☐	nickel (Ni) [%], copper (Cu) [%], zinc (Zn) [%], lead (Pb) [%], gold (Au) [%], silver (Ag) [%], manganese (Mn) [%], iron (Fe) [%], tin (Sn) [%], cadmium (Cd) [%], chromium (Cr) [%], mercury (Hg) [%], molybdenum (Mo) [%] (all quantitative)	Jul-26	
2011274	**Metals and alloys - release of metals part 1**	☐	aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg], zirconium (Zr) [mg/kg] (all quantitative)	Jun-26	
2011275	**Metals and alloys - release of metals part 2**	☐	aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg], zirconium (Zr) [mg/kg], envelope volume [cm³] (all quantitative)	Nov-26	
2011337	**Release of Al from aluminium foil**	☐	aluminium (Al) (2 h, 70 °C) [mg/kg], aluminium (Al) (10 d, 60 °C) [mg/kg] (all quantitative)	Nov-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Rubber - NEW!				Login or register
2011404	**Rubber - phthalates**	☐	DBP (CAS 84-74-2) [g/100 g], DIPB (CAS 84-69-5) [g/100 g], DPP (CAS 131-18-0) [g/100 g], DHEXP (CAS 84-75-3) [g/100 g], DCHP (CAS 84-61-7) [g/100 g], DEHP (CAS 117-81-7) [g/100 g], BBP (CAS 85-68-7) [g/100 g], DMEP (CAS 117-82-8) [g/100 g], DIPP (CAS 605-50-5) [g/100 g], DNOP (CAS 117-84-0) [g/100 g], DINP (CAS 28553-12-0) [g/100 g], DIDP (CAS 26761-40-0) [g/100 g], DEP (CAS 84-66-2) [g/100 g], DMP (CAS 131-11-3) [g/100 g] (all quantitative)	Jun-26	
2011405	**Rubber - N-nitrosamines**	☐	NDPA (CAS 621-64-7) [mg/kg], NDMA (CAS 62-75-9) [mg/kg], NDEA (CAS 55-18-5) [mg/kg], NDBA (CAS 924-16-3) [mg/kg], NPIP (CAS 100-75-4) [mg/kg], NPYR (CAS 930-55-2) [mg/kg], NMOR (CAS 59-89-2) [mg/kg], NMPhA (CAS 614-00-6) [mg/kg], NEPhA (CAS 612-64-6) [mg/kg], NDBzA (CAS 5336-53-8) [mg/kg], NMEA (CAS 10595-95-6) [mg/kg], NDPhA (CAS 86-30-6) [mg/kg] (all quantitative)	Nov-26	
2011406	**Rubber - organotin compounds**	☐	n-butyltintrichloride (as cation) (CAS 1118-46-3) [µg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/kg], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/kg], tetra-n-butyltin (CAS 1461-25-2) [µg/kg] (all quantitative)	Aug-26	
2011407	**Rubber – chlorinated paraffins (SCCP, MCCP)**	☐	SCCP (C10-C13) [mg/kg], MCCP (C14-C17) [mg/kg] (all quantitative)	Jun-26	
	Rubber				
2010853	**Rubber - PAH content**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], fluoranthene (CAS 206-44-0) [mg/kg] (all quantitative)	Sep-26	
2011130	**Rubber - overall migration (one-sided contact)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	Jan-26	
2011131	**Rubber - overall migration (total immersion)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (vegetable oil) [mg/dm²] (all quantitative)	Oct-26	
2011132	**Rubber - overall migration (substitute test, one-sided contact)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²] (all quantitative)	Dec-26	
2011133	**Rubber - specific migration metals**	☐	zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg] (all quantitative)	Nov-26	
2011134	**Rubber - specific migration antioxidant**	☐	poly(dicyclopentadiene-co-p-cresole) (CAS 68610-51-5) (ethanol 95%) [mg/kg], poly(dicyclopentadiene-co-p-cresole) (CAS 68610-51-5) (ISO octane) [mg/kg] (all quantitative)	Jan-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Cosmetic - NEW!				Login or register
2011401	**Cosmetics - acid value, peroxide value**	☐	acid value [mg/g], peroxide value [mEq active oxygen/kg] (all quantitative)	Aug-26	
2011402	**Cosmetics - hyaluronic acid**	☐	hyaluronic acid (CAS 9004-61-9) [g/100 g] (all quantitative)	Oct-26	
2011403	**Cosmetics - 1,4-dioxane**	☐	1,4-dioxane (CAS 123-91-1) [mg/kg] (all quantitative)	Sep-26	
	Cosmetic				
2010700	**Cosmetics - heavy metals (ISO 21392)**	☐	lead (Pb) [mg/kg], arsenic (As) [mg/kg], antimony (Sb) [mg/kg], nickel (Ni) [mg/kg], cobalt (Co) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg] (all quantitative)	Nov-26	
2010206	**Care products**	☐	methyl 4-hydroxybenzoate calculated as acid [g/100g], propyl 4-hydroxybenzoate calculated as acid [g/100g], n-butyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g], benzoic acid [g/100g], sorbic acid [g/100g], methylisothiazolinone [mg/kg], isobutyl 4-hydroxybenzoate calculated as acid [g/100g] (all quantitative)	Oct-26	
3010015	**Shampoo, lotion**	☐	density [g/ml], pH value [-], dry matter [g/100g], water content [g/100g], urea [g/100g], aw value [-] (all quantitative)	Aug-26	
2010201	**Cream, lotion**	☐	dexpanthenol [g/100g], α-tocopherolacetat [g/100g], retinolpalmitate [g/100g] (all quantitative)	Dec-26	
3010017	**Dental care - total fluoride**	☐	total fluoride [g/100g] (all quantitative)	Oct-26	
2010332	**Cosmetics - metals**	☐	aluminium (Al) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Dec-26	
2010334	**Cosmetics - UV filters**	☐	EHS (CAS 118-60-5) [g/100g], BMDM (CAS 70356-09-1) [g/100g], EHT (CAS 88122-99-0) [g/100g], PBSA (CAS 27503-81-7) [g/100g], OC calculated as acid (CAS 6197-30-4) [g/100g], titanium dioxide (CAS 13463-67-7) [g/100g], HMS (CAS 118-56-9) [g/100g], BEMT (CAS 187393-00-6) [g/100g], DHHB (CAS 302776-68-7) [g/100g], DEBT (CAS 154702-15-5) [g/100g], PDTA (CAS 180898-37-7) [g/100g], TDSA (CAS 90457-82-2) [g/100g], BZ4 (CAS 4065-45-6) [g/100g], BZ3 (CAS 131-57-7) [g/100g], IMC (CAS 71617-10-2) [g/100g], MBC (CAS 36861-47-9) [g/100g], EHDP (CAS 21245-02-3) [g/100g], EHMC (CAS 5466-77-3) [g/100g], MBBT (CAS 103597-45-1) [g/100g], P15 (CAS 207574-74-1) [g/100g] (all quantitative)	Jun-26	
2010336	**Cosmetics - PAHs**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Jul-26	
2010558	**Cosmetics - mineral oil**	☐	MOSH C10-C50 [g/100g], MOAH C10-C50 [g/100g] (all quantitative)	Dec-26	
2010650	**Cosmetics - anti-dandruff products**	☐	pirocton-olamine (CAS 68890-66-4) [g/100g], zinc pyrithione (CAS 13463-41-7) [g/100g] (all quantitative)	Dec-26	
2010652	**Cosmetics - solvents**	☐	acetone (CAS 67-64-1) [g/100g], ethanol (CAS 64-17-5) [g/100g], propylene glycol (CAS 57-55-6) [g/100g], isopropyl (CAS 67-63-0) [g/100g] (all quantitative)	Dec-26	
2010397	**Self-tanner**	☐	free formaldehyde (CAS 50-00-0) [mg/kg], dihydroxyacetone (CAS 96-26-4) [g/100 g] (all quantitative)	Jun-26	
2011100	**Cosmetics - 3-iodoprop-2-yn-1-yl butylcarbamate (IPBC)**	☐	IPBC (CAS 55406-53-6) [g/100 g] (all quantitative)	Sep-26	
2011129	**Cosmetics - AOX**	☐	AOX [mg/kg calculated as chlorine] (all quantitative)	Aug-26	
2011141	**Cosmetic products – pesticides**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-26	
2011158	**Cosmetic products - allergenic fragrances**	☐	identification of various allergenic fragrances (qual.), quantification of the identified fragrances [mg/kg] (quant.)	Oct-26	
2011272	**Cosmetics - phthalates**	☐	MnHexP (CAS 24539-57-9) [mg/kg], DHEXP (CAS 84-75-3) [mg/kg], DBP (CAS 84-74-2) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DMEP (CAS 117-82-8) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIPP (CAS 605-50-5) [mg/kg] (all quantitative)	Sep-26	
2011273	**Cosmetics - PFAS**	☐	total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total fluor (TF) [mg/kg], total organic fluor (TOF) [mg/kg] (all quantitative)	Jun-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Leather - NEW!				Login or register
2011384	**Leather – chlorinated paraffins (SCCP, MCCP)**	☐	SCCP (C10-C13) [mg/kg], MCCP (C14-C17) [mg/kg] (all quantitative)	Oct-26	
	Leather				
2010189	**Leather – total metal content (ISO 17072-2)**	☐	chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zirconium (Zr) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], titanium (Ti) [mg/kg] (all quantitative)	May-26	
2010192	**Leather - volatile matter (ISO 4684)**	☐	Mass fraction of volatile substances [%] (all quantitative)	Jun-26	
2010198	**Leather - aromatic amines from azo dyes (ISO 17234-1)**	☐	o-toluidine (CAS 95-53-4) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], o-dianisidine (CAS 119-90-4) [mg/kg], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg], o-aminoazotoluene (CAS 97-56-3) [mg/kg], 4-chloroaniline (CAS 106-47-8) [mg/kg], 3,3'-dichlorobenzidine (CAS 91-94-1) [mg/kg], benzidine (CAS 92-87-5) [mg/kg], o-tolidine (CAS 119-93-7) [mg/kg], 2,4-diaminotoluene (CAS 95-80-7) [mg/kg] (all quantitative)	Jul-26	
2010200	**Leather - 4-aminoazobenzene (ISO 17234-2)**	☐	4-aminoazobenzene (CAS 60-09-3) [mg/kg] (all quantitative)	Jul-26	
2010211	**Leather – alkylphenols, ethoxylates (ISO 18218-1,-2)**	☐	nonylphenol ethoxylat (CAS 68412-54-4) [mg/kg], octylphenol ethoxylate (CAS 9002-93-1) [mg/kg], 4-nonylphenol isomer mixture (CAS 84852-15-3) [mg/kg], 4-tert-octylphenol (CAS 140-66-9) [mg/kg] (all quantitative)	Aug-26	
2011145	**Leather - bisphenols (ISO 11936)**	☐	bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg] (all quantitative)	Apr-26	
2011143	**Leather - PFAS (ISO 23702-1)**	☐	total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg] (all quantitative)	Sep-26	
2011005	**Footwear materials - dimethyl fumarate (DMFU) (ISO 16186)**	☐	Dimethyl fumarate (CAS 624-49-7) [mg/kg] (all quantitative)	Aug-26	
2011007	**Footwear materials - dimethylformamide (DMF) (ISO 16189)**	☐	Dimethylformamide (CAS 68-12-2) [mg/kg] (all quantitative)	Aug-26	
2011146	**Leather - PAHs**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Oct-26	
2010265	**Footwear - organotin compounds**	☐	n-butyltintrichloride (as cation) (CAS 1118-46-3) [µg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/kg], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/kg], tetra-n-butyltin (CAS 1461-25-2) [µg/kg] (all quantitative)	Aug-26	
2010202	**Leather – chlorophenols (ISO 17070)**	☐	4-chlorphenol (CAS 106-48-9) [mg/kg], 2,4-dichlorphenol (CAS 120-83-2) [mg/kg], 2,6-dichlorophenol (CAS 87-65-0) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 2,3,4,6-tetrachlorphenol (CAS 58-90-2) [mg/kg], pentachlorophenol (CAS 87-86-5) [mg/kg] (all quantitative)	Nov-26	
2010196	**Leather – formaldehyde content (ISO 17226-1)**	☐	free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Oct-26	
2011122	**Leather - pesticide residues content (ISO 22517)**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Oct-26	
2011251	**Leather - chromium (VI)**	☐	chromium VI (Cr VI) [mg/kg] (all quantitative)	Oct-26	
2011252	**Leather - phthalates**	☐	DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg] (all quantitative)	Aug-26	
2011253	**Leather - N-nitrosamines**	☐	NDBzA (CAS 5336-53-8) [mg/kg], NDBA (CAS 924-16-3) [mg/kg], NDELA (CAS 1116-54-7) [mg/kg], NDEA (CAS 55-18-5) [mg/kg], NDiBA (CAS 997-95-5) [mg/kg], NDiNA (CAS 1027995-62-7) [mg/kg], NDiPA (CAS 601-77-4) [mg/kg], NDMA (CAS 62-75-9) [mg/kg], NDPA (CAS 621-64-7) [mg/kg], NMEA (CAS 10595-95-6) [mg/kg], NMOR (CAS 59-89-2) [mg/kg], NEPhA (CAS 612-64-6) [mg/kg], NMPhA (CAS 614-00-6) [mg/kg], NPIP (CAS 100-75-4) [mg/kg], NPYR (CAS 930-55-2) [mg/kg] (all quantitative)	Nov-26	

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Proficiency testing - chemical-physical

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Textiles - NEW!				Login or register
2011335	**Textiles - 4-aminoazobenzene (ISO 14362-3)**	☐	4-aminoazobenzene (CAS 60-09-3) [mg/kg] (all quantitative)	Nov-26	
2011391	**Textiles - solvents**	☐	dimethylformamide (CAS 68-12-2) [mg/kg], dimethylacetamide (CAS 127-19-5) [mg/kg], N-methyl-2-pyrrolidone (CAS 872-50-4) [mg/kg], N-ethyl-2-pyrrolidone (CAS 2687-91-4) [mg/kg] (all quantitative)	Aug-26	
2011392	**Textiles - UV absorber (ISO 24040)**	☐	UV 320 (CAS 3846-71-7) [mg/kg], UV 327 (CAS 3864-99-1) [mg/kg], UV 328 (CAS 25973-55-1) [mg/kg], UV 350 (CAS 36437-37-3) [mg/kg] (all quantitative)	Sep-26	
2011393	**Textiles – chlorinated paraffins (SCCP, MCCP) (ISO 22818)**	☐	SCCP (C10-C13) [mg/kg], MCCP (C14-C17) [mg/kg] (all quantitative)	Jun-26	
2011394	**Textiles - Brominated flame retardants (ISO 17881-1)**	☐	2-bromobiphenyl (CAS 2052-07-5) [mg/kg], 2,2',3,3',4,4',5,5'-octabromobiphenyl (CAS 67889-00-3) [mg/kg], 2,2',3,3',4,4',5,5',6-nonabromobiphenyl (CAS 69278-62-2) [mg/kg], decabromodiphenyl ether (CAS 1163-19-5) [mg/kg], 2,2',3,4,4',5,5',6-octabromodiphenyl ether (CAS 337513-72-1) [mg/kg], 2,2',3,4,4',5',6-heptabromodiphenyl ether (CAS 207122-16-5) [mg/kg], 2,2',4,4'-tetrabromodiphenyl ether (CAS 5436-43-1) [mg/kg], 2,2',4,4',5,6'-hexabromodiphenyl ether (CAS 207122-15-4) [mg/kg], 2,2',4,5'-tetrabromobiphenyl (CAS 60044-24-8) [mg/kg], 2,2',4,5',6-pentabromobiphenyl (CAS 59080-39-6) [mg/kg], 2,2',5-tribromobiphenyl (CAS 59080-34-1) [mg/kg], 2,3,3',4,4',5,5'-heptabromobiphenyl (CAS 88700-06-5) [mg/kg], 2,5-dibromobiphenyl (CAS 57422-77-2) [mg/kg], 3,3',4,4',5,5'-hexabromobiphenyl (CAS 6044-26-0) [mg/kg], decabromobiphenyl (CAS 13654-09-6) [mg/kg] (all quantitative)	Dec-26	
2011395	**Textiles - VOC**	☐	Selected VOCs from the AFRIM Restricted Substances List, Annex D, are to be tested. (all quantitative)	Sep-26	
2011396	**Textiles - PFAS (EN 17681-1, alkaline hydrolysis)**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutanoic acid (CAS 375-22-4) [µg/kg], total perfluoropentanoic acid (CAS 2706-90-3) [µg/kg], total perfluoroheptanoic acid (CAS 375-85-9) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], 6:2 FTOH (CAS 647-42-7) [mg/kg], 8:2 FTOH (CAS 678-39-7) [mg/kg], 10:2 FTOH (CAS 865-86-1) [mg/kg], 12:2 FTOH (CAS 39239-77-5) [mg/kg], total fluor (TF) [mg/kg], total organic fluor (TOF) [mg/kg] (all quantitative)	Oct-26	
	Many per- and polyfluorinated substances (PFAS) are subject to various restrictions in the European Union. The placing on the market and use of PFOS, PFOA and PFHxS, for example, is regulated in the POP Regulation (Regulation (EU) 2019/1021), while C9-C14 PFCAs are subject to the provisions of the REACH Regulation (Regulation (EC) No 1907/2006). In addition, many other PFAS have been added to the SVHC canidate list. This proficiency test offers you the opportunity to check your analyses of a large number of PFAS. In this proficiency testing, PFAS are to be analysed by alkaline hydrolysis in accordance with EN 17681-1. In addition, this proficiency testing offers you the opportunity to verify your analysis of the two sum parameters TF and TOF.				
	Textiles				
2010185	**Textiles - formaldehyde (ISO 14184-1)**	☐	free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	May-26	
2010328	**Textiles - aromatic amines from azo dyes (ISO 14362-1)**	☐	o-toluidine (CAS 95-53-4) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], o-dianisidine (CAS 119-90-4) [mg/kg], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg], o-aminoazotoluene (CAS 97-56-3) [mg/kg], 4-chloroaniline (CAS 106-47-8) [mg/kg], 3,3'-dichlorobenzidine (CAS 91-94-1) [mg/kg], benzidine (CAS 92-87-5) [mg/kg], o-tolidine (CAS 119-93-7) [mg/kg], 2,4-diaminotoluene (CAS 95-80-7) [mg/kg] (all quantitative)	Nov-26	
2010181	**Textiles - phthalate content (ISO 14389)**	☐	DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg] (all quantitative)	Aug-26	
2010179	**Textiles - metal content (EN 16711-1)**	☐	chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], copper (Cu) [mg/kg] (all quantitative)	Sep-26	
2010324	**Textiles - extractable metals (EN 16711-2)**	☐	chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], antimony (Sb) [mg/kg], arsenic (As) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], barium (Ba) [mg/kg], manganese (Mn) [mg/kg], selenium (Se) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jul-26	
2010430	**Textiles - lead release (saliva simulant, EN 16711-3)**	☐	lead release [µg/cm²/h] (all quantitative)	May-26	
2010173	**Textiles – organotin compounds (ISO 22744-1; 22744-2)**	☐	n-butyltintrichloride (as cation) (CAS 1118-46-3) [µg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/kg], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/kg], tetra-n-butyltin (CAS 1461-25-2) [µg/kg] (all quantitative)	Oct-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
Textiles					Login or register
2010527	**Textiles - PAH (EN 17132)**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Aug-26	
2010175	**Textiles - PFAS (solvent extraction)**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutanoic acid (CAS 375-22-4) [µg/kg], total perfluoropentanoic acid (CAS 2706-90-3) [µg/kg], total perfluoroheptanoic acid (CAS 375-85-9) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], 10:2 FTMA (CAS 2144-54-9) [µg/kg] (all quantitative)	Oct-26	
2010226	**Textiles – alkylphenols, ethoxylates (ISO 21084)**	☐	nonylphenol ethoxylat (CAS 68412-54-4) [mg/kg], octylphenol ethoxylate (CAS 9002-93-1) [mg/kg], 4-nonylphenol isomer mixture (CAS 84852-15-3) [mg/kg], 4-tert-octylphenol (CAS 140-66-9) [mg/kg] (all quantitative)	Nov-26	
2010326	**Textiles – phosphorus flame retardants (ISO 17881-2)**	☐	tributyl phosphate (CAS 126-73-8) [mg/kg], o-triskresyl phosphate (CAS 78-30-8) [mg/kg], tris(2-chloroethyl)-phosphate (CAS 115-96-8) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg] (all quantitative)	Dec-26	
2011017	**Textiles - chlorobenzenes and chlorotoluenes (EN 17137)**	☐	2-chlorotoluene (CAS 95–49–8) [mg/kg], 3-chlorotoluene (CAS 108–41–8) [mg/kg], 4-chlorotoluene (CAS 106–43–4) [mg/kg], 2,3-dichlorotoluene (CAS 32768–54–0) [mg/kg], 2,4-dichlorotoluene (CAS 95–73–8) [mg/kg], 2,5-dichlorotoluene (CAS 19398–61–9) [mg/kg], 2,6-dichlorotoluene (CAS 118–69–4) [mg/kg], 2,3,6-trichlorotoluene (CAS 2077–46–5) [mg/kg], 2,4,5-trichlorotoluene (CAS 6639–30–1) [mg/kg], chlorobenzene (CAS 108-90-7) [mg/kg], 1,2-dichlorobenzene (CAS 95–50–1) [mg/kg], 1,3-dichlorobenzene (CAS 541–73–1) [mg/kg], 1,4-dichlorobenzene (CAS 106–46–7) [mg/kg], 1,2,3-trichlorobenzene (CAS 87–61–6) [mg/kg], 1,2,4-trichlorobenzene (CAS 120–82–1) [mg/kg], 1,3,5-trichlorobenzene (CAS 108–70–3) [mg/kg], 1,2,3,4-tetrachlorobenzene (CAS 634–66–2) [mg/kg], 1,2,3,5-tetrachlorobenzene (CAS 634–90–2) [mg/kg], 1,2,4,5-tetrachlorobenzene (CAS 95–94–3) [mg/kg], pentachlorobenzene (CAS 608-93-5) [mg/kg] (all quantitative)	May-26	
2010227	**Textiles – chlorophenoles**	☐	pentachlorophenol (CAS 87-86-5) [mg/kg], 2,3,4,5-tetrachlorophenol (CAS 4901-51-3) [mg/kg], 2,3,4,6-tetrachlorphenol (CAS 58-90-2) [mg/kg], 2,3,5,6-tetrachlorophenol (CAS 935-95-5) [mg/kg], 2,3,4-trichlorophenol (CAS 15950-66-0) [mg/kg], 2,3,5-trichlorophenol (CAS 933-78-8) [mg/kg], 2,3,6-trichlorophenol (CAS 933-75-5) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 3,4,5-trichlorophenol (CAS 609-19-8) [mg/kg], 2,3-dichlorophenol (CAS 576-24-9) [mg/kg], 2,4-dichlorphenol (CAS 120-83-2) / 2,5-dichlorophenol (CAS 583-78-8) [mg/kg], 2,6-dichlorophenol (CAS 87-65-0) [mg/kg], 3,4-dichlorophenol (CAS 95-77-2) [mg/kg], 3,5-dichlorophenol (CAS 591-35-5) [mg/kg], 2-chlorophenol (CAS 95-57-8) [mg/kg], 3-chlorophenol (CAS 108-43-0) [mg/kg], 4-chlorphenol (CAS 106-48-9) [mg/kg] (all quantitative)	Nov-26	
2011144	**Textiles - rPET share**	☐	isophthalic acid (CAS 121-91-5) [mg/kg] (all quantitative)	Jul-26	
2011262	**Textiles - bisphenols**	☐	bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg] (all quantitative)	May-26	
2011328	**Textiles - extractable dyes (DIN 54231)**	☐	Acid Red 26 (CAS 3761-53-3) [mg/kg], Basic Violet 1 (CAS 8004-87-3) [mg/kg], Basic Violet 3 (CAS 548-62-9) [mg/kg], Direct Black 38 (CAS 1937-37-7) [mg/kg], Direct Blue 6 (CAS 2602-46-2) [mg/kg], Disperse Blue 1 (CAS 2475-45-8) [mg/kg], Disperse Blue 3 (CAS 2475-46-9) [mg/kg], Disperse Blue 26 (CAS 3860-63-7) [mg/kg], Disperse Blue 106 (CAS 68516-81-4) [mg/kg], Disperse Blue 124 (CAS 15141-18-1) [mg/kg], Disperse Orange 1 (CAS 2581-69-3) [mg/kg], Disperse Orange 37/76 (CAS 13301-61-6) [mg/kg], Disperse Red 1 (CAS 2872-52-8) [mg/kg], Disperse Red 17 (CAS 3179-89-3) [mg/kg], Disperse Yellow 1 (CAS 119-15-3) [mg/kg], Disperse Yellow 3 (CAS 2832-40-8) [mg/kg], Disperse Yellow 39 (CAS 12236-29-2) [mg/kg], Disperse Yellow 49 (CAS 6858-49-7) [mg/kg], Solvent Yellow 1 (CAS 60-09-3) [mg/kg], quinoline (CAS 91-22-5) [mg/kg] (all quantitative)	Sep-26	
2010935	**Mineral oil in jute bags**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Oct-26	
2010177	**Textiles - pesticides**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
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2011397	**Toys - categorization of slimes (CEN TS 17973)**	☐	time of sinking [s] (all quantitative)	Sep-26	
2011398	**Toys - thermal desorption analysis**	☐	benzene (CAS 71-43-2) [mg/kg], toluene (CAS 108-88-3) [mg/kg], ethylbenzen (CAS 100-41-1) [mg/kg], xylene (CAS 1330-20-7) [mg/kg] (all quantitative)	Jun-26	
2011399	**Toys - formamide (EN 71-15)**	☐	formamide (CAS 75-12-7) [mg/kg] (all quantitative)	Oct-26	
2011400	**Toys - flame retardants (EN 71-16)**	☐	tris(2-chloroethyl)-phosphate (CAS 115-96-8) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg], tris[2-chloro-1-(chloromethyl)ethyl]-phosphate (CAS 13674-84-8) [mg/kg] (all quantitative)	Dec-26	
	Toys				
2010562	**Scrapped-off materials - elements (EN 71-3)**	☐	tin (Sn) [mg/kg], zinc (Zn) [mg/kg], nickel (Ni) [mg/kg], strontium (Sr) [mg/kg], antimony (Sb) [mg/kg], barium (Ba) [mg/kg], cadmium (Cd) [mg/kg], cobalt (Co) [mg/kg], lead (Pb) [mg/kg], chromium III (Cr III) [mg/kg], chromium VI (Cr VI) [mg/kg], chromium (Cr) [mg/kg], aluminium (Al) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], manganese (Mn) [mg/kg], mercury (Hg) [mg/kg], selenium (Se) [mg/kg] (all quantitative)	Nov-26	
2011157	**Toys - organotin, scrapped-off materials (EN 71-3)**	☐	methyltin trichloride (as cation) (CAS 993-16-8) [mg/kg], dimethyltin dichloride (as cation) (CAS 753-73-1) [mg/kg], n-Butyltintrichloride (as cation) (CAS 1118-46-3) [mg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [mg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [mg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [mg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [mg/kg], di-n-propyltindichloride (as cation) (CAS 867-36-7) [mg/kg], tetra-n-butyltin (CAS 1461-25-2) [mg/kg], diphenyltindichloride (as cation) (CAS 1135-99-5) [mg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [mg/kg] (all quantitative)	Sep-26	
2010299	**Wobble mass, slime - boron (EN 71-3)**	☐	boron (B) [mg/kg] (all quantitative)	Sep-26	
2010309	**Finger paint - primary aromatic amines (EN 71-7)**	☐	4,4'-methylenedianiline (CAS 101-77-9) [mg/kg], o-toluidine (CAS 95-53-4) [mg/kg], benzidine (CAS 92-87-5) [mg/kg], aniline (CAS 62-53-3) [mg/kg], 3,3'-dichlorobenzidine (CAS 91-94-1) [mg/kg], 2-napthylamine (CAS 91-59-8) [mg/kg] (all quantitative)	Dec-26	
2010440	**Finger paint - preservatives (EN 71-7)**	☐	benzoic acid [g/100g], sorbic acid [g/100g], methyl 4-hydroxybenzoate calculated as acid [g/100g], propyl 4-hydroxybenzoate calculated as acid [g/100g], n-butyl 4-hydroxybenzoate calculated as acid [g/100g], isobutyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g] (all quantitative)	Dec-26	
2011154	**Toys - migration of plasticizers (EN 71-10, EN 71-11)**	☐	triphenylphosphate (CAS 115-86-6) [mg/l], tri-o-tolylphosphate (CAS 78-30-8) [mg/l], tri-m-tolylphosphate (CAS 563-04-2) [mg/l], tri-p-tolylphosphate (CAS 78-32-0) [mg/l] (all quantitative)	Sep-26	
2010626	**Liquid toys - preservatives (EN 71-17)**	☐	BIT (CAS 2634-33-5) [mg/kg], MI (CAS 2682-20-4) [mg/kg] (all quantitative)	Dec-26	
2011155	**Toys - wood preservative (EN 71-10, EN 71-11)**	☐	2,4-dichlorphenol (CAS 120-83-2) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,3,4,6-tetrachlorphenol (CAS 58-90-2) [mg/kg], pentachlorophenol (CAS 87-86-5) [mg/kg], lindane (CAS 58-89-9) [mg/kg], cyfluthrin (CAS 68359-37-5) [mg/kg], cypermethrin (CAS 52315-07-8) [mg/kg], deltamethrin (CAS 52918-63-5) [mg/kg], permethrin (CAS 52645-53-1) [mg/kg] (all quantitative)	Jun-26	
2010257	**Toys - migration monomeres**	☐	bisphenol A (CAS 80-05-7) [mg/l], phenol (CAS 108-95-2) [mg/l], acrylamide (CAS 79-06-1) [mg/l], formaldehyde (CAS 50-00-0) [mg/l], styrene (CAS 100-42-5) [mg/l] (all quantitative)	Aug-26	
2010255	**Toys - dyes (EN 71-11)**	☐	Disperse Blue 1 (CAS 2475-45-8) [mg/kg], Disperse Orange 37/76 (CAS 13301-61-6) [mg/kg], Basic Violet 3 (CAS 548-62-9) [mg/kg], Disperse Blue 3 (CAS 2475-46-9) [mg/kg], Disperse Blue 106 (CAS 12223-01-7) [mg/kg], Disperse Blue 124 (CAS 61951-51-7) [mg/kg], Disperse Yellow 3 (CAS 2832-40-8) [mg/kg], Disperse Orange 3 (CAS 730-40-5) [mg/kg], Disperse Red 1 (CAS 2872-52-8) [mg/kg], Solvent Yellow 1 (CAS 60-09-3) [mg/kg], Solvent Yellow 2 (CAS 60-11-7) [mg/kg], Solvent Yellow 3 (CAS 97-56-3) [mg/kg], Basic Red 9 (CAS 569-61-9) [mg/kg], Basic Violet 1 (CAS 8004-87-3) [mg/kg], Acid Red 26 (CAS 3761-53-3) [mg/kg], Acid Violet 49 (CAS 1694-09-3) [mg/kg] (all quantitative)	Dec-26	
2010253	**Finger paint - NDELA (EN 71-12)**	☐	NDELA (CAS 1116-54-7) [µg/kg] (all quantitative)	Dec-26	
2010301	**Formaldehyde release (EN 717-3) (use of a model matrix)**	☐	formaldehyde release (bottle value Fv) (CAS 50-00-0) [mg/kg] (all quantitative)	Oct-26	
2010564	**Toys - colourfastness (DIN 53160)**	☐	colour fastness (artificial saliva) [-], colour fastness (artificial sweat) [-] (all quantitative)	Jun-26	
2011268	**Toys, elastomers - N-nitrosamine**	☐	NDELA (CAS 1116-54-7) [µg/kg], NDMA (CAS 62-75-9) [µg/kg], NDEA (CAS 55-18-5) [µg/kg], NDPA (CAS 621-64-7) [µg/kg], NDiPA (CAS 601-77-4) [µg/kg], NDBA (CAS 924-16-3) [µg/kg], NDiBA (CAS 997-95-5) [µg/kg], NDiNA (CAS 1207995-62-7) [µg/kg], NMOR (CAS 59-89-2) [µg/kg], NPIP (CAS 100-75-4) [µg/kg], NDBzA (CAS 5336-53-8) [µg/kg], NMPhA (CAS 614-00-6) [µg/kg], NEPhA (CAS 612-64-6) [µg/kg] (all quantitative)	Nov-26	

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Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
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2011009	**Toys - lead, cadmium (CPSC-CH-E1004-11, CPSC-CH-E1002-08.3)**	☐	lead (Pb) [mg/kg], cadmium (Cd) [µg Cd] (all quantitative)	Jul-26	
2011266	**Toys - phthalates (CPSC-CH-C1001-09.4)**	☐	DBP (CAS 84-74-2) [% (w/w)], DIBP (CAS 84-69-5) [% (w/w)], DPP (CAS 131-18-0) [% (w/w)], DHEXP (CAS 84-75-3) [% (w/w)], DCHP (CAS 84-61-7) [% (w/w)], DEHP (CAS 117-81-7) [% (w/w)], BBP (CAS 85-68-7) [% (w/w)] (all quantitative)	Jun-26	
2011267	**Toys - lead in paint (CPSC-CH-E1003-09.1)**	☐	lead (Pb) [µg/g] (all quantitative)	Jun-26	
	Tattoo ink				
2010338	**Tattoo ink - preservatives**	☐	BIT (CAS 2634-33-5) [mg/kg] (all quantitative)	Apr-26	
2010340	**Tattoo ink - aromatic amines**	☐	aniline (CAS 62-53-3) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], o-toluidine (CAS 95-53-4) [mg/kg], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg] (all quantitative)	Apr-26	
2010560	**Tattoo ink - elements**	☐	nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zinc (Zn) [mg/kg], arsenic (As) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], copper (Cu) [mg/kg], mercury (Hg) [mg/kg] (all quantitative)	Apr-26	
2011269	**Tattoo ink – PAH**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Dec-26	
2011270	**Tattoo ink - residual solvents**	☐	benzene (CAS 71-43-2) [µg/kg], toluene (CAS 108-88-3) [µg/kg], ethylbenzen (CAS 100-41-1) [µg/kg], xylene (CAS 1330-20-7) [µg/kg] (all quantitative)	Dec-26	
2011271	**Tattoo ink- N-nitrosamine**	☐	NDPA (CAS 621-64-7) [µg/kg], NDMA (CAS 62-75-9) [µg/kg], NDELA (CAS 1116-54-7) [µg/kg] (all quantitative)	Dec-26	
	Jewellery				
2010568	**Jewellery (acc. to EN 1811)**	☐	surface area [cm²], nickel release [µg/cm²/week] (all quantitative)	Jul-26	
2010969	**Lead and cadmium in jewelry**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg] (all quantitative)	Oct-26	

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	E-cigarettes				Login or register
2010264	**Liquids from e-cigarettes (ISO 20714)**	☐	glycerol (CAS 56-81-5) [mg/g], propylene glycol (CAS 57-55-6) [mg/g], nicotine (CAS 54-11-5) [mg/g] (all quantitative)	Sep-26	
	Cleaning and care agents - NEW!				
2011358	**Impregnating agent - PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutanoic acid (CAS 375-22-4) [µg/kg], total perfluoropentanoic acid (CAS 2706-90-3) [µg/kg], total perfluoroheptanoic acid (CAS 375-85-9) [µg/kg], total perfluorobutanesulfonic acid (CAS 375-73-5) [µg/kg], 6:2 FTOH (CAS 647-42-7) [mg/kg], 8:2 FTOH (CAS 678-39-7) [mg/kg], 10:2 FTOH (CAS 865-86-1) [mg/kg], 12:2 FTOH (CAS 39239-77-5) [mg/kg], total fluor (TF) [mg/kg], total organic fluor (TF) [mg/kg] (all quantitative)	Jul-26	
	Cleaning and care agents				
2010914	**Organic acids**	☐	citric acid (anhydrous) [g/100 ml], formic acid [g/100 ml], sulfamic acid [g/100 ml] (all quantitative)	Oct-26	
2010916	**Oxidizing agent**	☐	sodium hypochlorite [g/100g], hydrogen peroxide [g/100g], sodium percarbonate [g/100g] (all quantitative)	Oct-26	
2010920	**Acid, alkali cleaning agent**	☐	pH value [-], acid reserve [g NaOH/100g], alkali reserve [g NaOH/100g] (all quantitative)	Apr-26	
2010432	**Hygienic rinsing agent - disinfectant**	☐	DDAC-C10 (CAS 7173-51-5) [mg/l], BAC C12-C16 (CAS 68424-85-1) [mg/l] (all quantitative)	Jul-26	

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Proficiency testing - organoleptic

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
					Login or register
Plastics, plastic film					
3010011	**Sensory testing of food contact materials and articles (FCM) (DIN 10955)**	☐	sensory analysis - sample preparation, intensity estimation, descriptive testing (minimum number of participants: 6 assessors)	Sep-26	
Paper and board					
3010024	**Sensory of board and paper acc. to EN 1230**	☐	sensory analysis - sample preparation, intensity estimation, descriptive testing	Sep-26	
3010022	**Threshold value examination off flavour**	☐	threshold value	Aug-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Canning, glass						
2010172	**Detection of mesophilic microbial load in canned food**	☐	mesophilic germ load (all qualitative)	**risk group 1**	Sep-26	
2010928	**Detection of thermophilic microbial load in canned food**	☐	thermophilic germ load (55°C) (all qualitative)	**risk group 1**	Sep-26	
2010950	**Detection of anaerobic mesophilic spore load in canned food**	☐	anaerobic mesophilic germ load (all qualitative)	**risk group 2**	Sep-26	
Plastic surface						
2011299	**Surface testing - enumeration Enterobacteriaceae**	☐	Enterobacteriaceae [cfu/100 cm²] (all quantitative)	**risk group 1**	Sep-26	
2011300	**Surface testing - enumeration Listeria spp.**	☐	Listeria spp. [cfu/100 cm²] (all quantitative)	**risk group 2**	Sep-26	
2010119	**Surface testing - enumeration moulds**	☐	moulds [cfu/100 cm²] (all quantitative)	**risk group 1**	Sep-26	
2010191	**Surface testing - enumeration aerobic bacteria**	☐	aerobic total count [cfu/100 cm²] (all quantitative)	**risk group 1**	Sep-26	
2011350	**Swabs - detection of Salmonella spp. & Listeria spp.**	☐	Salmonella spp. [positive/negative], L. monocytogenes qualitative [positive/negative] (all qualitative)	**risk group 2**	Aug-26	
Paper and board						
2011304	**Paper, board - enumeration of aerobic bacteria (ISO 8784-2)**	☐	aerobic total count (all quantitative)	**risk group 1**	Nov-26	
2011305	**Paper, board - enumeration of moulds (ISO 8784-2)**	☐	moulds (all quantitative)	**risk group 1**	Nov-26	
2010279	**Paper - transition of antimicrobial components (EN 1104)**	☐	antibacterial effect Bacillus subtilis [mm], antimycotic effect Aspergillus niger [mm] (all qualitative)		Nov-26	
Cosmetic - NEW!						
2011390	**Detection of Pluralibacter gergoviae in O W emulsion**	☐	Pluralibacter gergoviae (all qualitative)	**risk group 2**	Sep-26	
Cosmetic						
2010085	**Challenge test**	☐	Ps.aeruginosa [CFU/g], S.aureus [CFU/g], E.coli [CFU/g], C.albicans [CFU/g], A.brasiliensis [CFU/g] (all quantitative)	**risk group 2**	Apr-26	
2010071	**Enumeration of aerobic bacteria in O W emulsion**	☐	aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Sep-26	
2010079	**Enumeration of moulds in O W emulsion**	☐	moulds [cfu/g] (all quantitative)	**risk group 1**	Sep-26	
2010077	**Identification of microorganism in O W emulsion**	☐	identification of germs (all qualitative)	**risk group 2**	Sep-26	
2010356	**Detection of S.aureus in O W emulsion**	☐	S.aureus (all qualitative)	**risk group 2**	Sep-26	
2010358	**Detection of E. coli in O W emulsion**	☐	E.coli (all qualitative)	**risk group 2**	Sep-26	
2010360	**Detection of C.albicans in O W emulsion**	☐	C.albicans (all qualitative)	**risk group 2**	Sep-26	
2010362	**Detection of P.aeruginosa in O W emulsion**	☐	Ps.aeruginosa (all qualitative)	**risk group 2**	Sep-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Textiles - NEW!					Login or register
2011351	**Footwear & components - antibacterial activity (ISO 16187)**	☐	Antibacterial activity (all quantitative)		Aug-26	
	Textiles					
2010076	**Antimicrobial Fabric Test textiles - AATCC 100**	☐	antibacterial activity S.aureus [% reduction], antibacterial activity K.pneumoniae [% reduction] (all quantitative)		May-26	
2010078	**Antibacterial Parallel Streak textiles - AATCC 147**	☐	antibacterial activity S.aureus, antibacterial activity K.pneumoniae (all qualitative)		May-26	
2010080	**Antibacterial Activity textiles - ISO 20743**	☐	antibacterial activity S.aureus [log10 reduction], antibacterial activity K.pneumoniae [log10 reduction] (all quantitative)		May-26	
2011104	**Antibacterial Activity textiles - AATCC 90**	☐	antibacterial activity S.aureus [mm], antibacterial activity K.pneumoniae [mm] (all qualitative)		May-26	
2010147	**Cotton (GMO)**	☐	detection of screening elements P-35S, T-NOS and pat, relative amount T304-40 [%], relative amount DAS-81910-7 [%] (all quantitative)		Dec-26	
	Tattoo ink					
2010354	**Enumeration of aerobic bacteria in tattoo ink**	☐	aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Oct-26	
	Toys					
2011302	**Detection of Salmonella spp. in water containing toys**	☐	Salmonella spp. [-] (all qualitative)	**risk group 2**	Jul-26	
2011303	**Bilesalt tolerant bacteria in water containing toys**	☐	bile-tolerant Gram-negative bacteria [cfu/g] (all quantitative)	**risk group 1**	Jul-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Disinfectant					Login or register
2011307	**Disinfectant bactericidal activity (EN 14561)**	☐	bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2011308	**Disinfectant levurocidal activity (EN 14562)**	☐	Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2011309	**Wipes (4-field test) bactericidal activity (EN 16615)**	☐	bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml] (all quantitative)		Jun-26	
2011310	**Wipes (4-field test) levurocidal activity (EN 16615)**	☐	Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml] (all quantitative)		Jun-26	
2011311	**Disinfectant bactericidal activity (EN 17387, EN 13697)**	☐	bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2011312	**Disinfectant levurocidal activity (EN 17387, EN 13697)**	☐	Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2010686	**Disinfectant bactericidal activity (EN 13727, EN 1276)**	☐	bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2010688	**Disinfectant levurocidal activity (EN 13624, EN 1650)**	☐	Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2010690	**Disinfectant mycobactericidal activity (EN 14348)**	☐	mycobactericidal effect M.terrae conc. 1 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 2 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 3 [log10 cfu/ml] (all quantitative)		Jun-26	
2010692	**Disinfectant sporocidal activity (EN 17126)**	☐	sporocidal activity B.subtilis [log10 pfu/ml], sporocidal activity B.cereus [log10 pfu/ml] (all quantitative)		Jun-26	
2010694	**Disinfectant virucidal activity (EN 14476)**	☐	virucidal effect (Vacciniavirus) conc. 1 [log10 pfu/ml] (all quantitative)		Jun-26	
	Protective clothing - NEW!					
2011348	**Protective gloves against microorganisms (ISO 374-2)**	☐	Resitance against penetration (all qualitative)		Aug-26	
2011355	**Protective gloves against viruses (ISO 16604)**	☐	Resitance against penetration (all qualitative)		Aug-26	
2011349	**Overshoes - detection of Salmonella spp.**	☐	Salmonella spp. [positive/negative] (all qualitative)	**risk group 2**	Aug-26	

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registration form proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

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For proficiency testing schemes labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancelation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

- ☐ This registration is permanent-registration and valid until my cancelation
- ☐ An offer with the total costs is needed
- ☐ A Purchase order from the purchasing department will follow

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	DRRR-customer number
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	additional line
	contact person
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	email
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für Ringversuche und Referenzmaterialien GmbH
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reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

Description reference material

Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivate reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

Profit with our high quality standards for your lab work

Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

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Identification

The reference materials listed on the following pages have specific article numbers to identify the materials. To supply our customers with consistently high quality the DRRR-reference materials will be replaced regularly by corresponding materials during the year. Currently available reference materials and its corresponding reference values will be sent on request. We reserve our right to send you always the latest materials.

Availability and order request of reference material

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
	Plastics, plastic film			on request: info@drrr.de
1151001	**Plastic - overall migration (one-sided contact) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (dist. water) [mg/dm²], overall migration (vegetable oil) [mg/dm²]	
1151002	**Plastic - overall migration (total immersion) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/dm²], overall migration (ethanol 20%) [mg/dm²], overall migration (ethanol 50%) [mg/dm²], overall migration (acetic acid 3%) [mg/dm²], overall migration (dist. water) [mg/dm²], overall migration (vegetable oil) [mg/dm²]	
1151044	**Plastic - overall migration (article filling) (EN 1186-3)**	☐	overall migration (ethanol 10%) [mg/kg], overall migration (ethanol 20%) [mg/kg], overall migration (ethanol 50%) [mg/kg], overall migration (acetic acid 3%) [mg/kg]	
1151045	**Plastic - overall migration (fatty test food, total immersion) (EN 1186-3)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²]	
1151056	**Plastic, silicone - overall migration using MPPO**	☐	overall migration: 1. migration (MPPO) [mg/dm²], overall migration: 2. migration (MPPO) [mg/dm²], overall migration: 3. migration (MPPO) [mg/dm²]	
1151167	**Plastic - overall migration (fatty test food, one-sided contact) (EN 1186-3)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²]	
1151003	**Plastic - specific migration caprolactam**	☐	caprolactam (ethanol 10%) [mg/dm²], caprolactam (ethanol 20%) [mg/dm²], caprolactam (ethanol 50%) [mg/dm²], caprolactam (acetic acid 3%) [mg/dm²], caprolactam (dist. water) [mg/dm²], caprolactam (vegetable oil) [mg/dm²]	
1151004	**Plastic - specific migration terephthalic acid**	☐	terephthalic acid (ethanol 10%) [mg/kg], terephthalic acid (ethanol 50%) [mg/kg], terephthalic acid (acetic acid 3%) [mg/kg], terephthalic acid (dist. water) [mg/kg], terephthalic acid (vegetable oil) [mg/kg]	
1151005	**Plastic - specific migration acrylonitrile (EN 13130-3)**	☐	acrylonitrile (ethanol 10%) [mg/kg], acrylonitrile (acetic acid 3%) [mg/kg], acrylonitrile (dist. water) [mg/kg], acrylonitrile (vegetable oil) [mg/kg]	
1151158	**Plastic - specific migration metals part 1**	☐	antimony (Sb) (dist. water) [mg/kg], antimony (Sb) (acetic acid 3%) [mg/kg], arsenic (As) (dist. water) [mg/kg], arsenic (As) (acetic acid 3%) [mg/kg], cadmium (Cd) (dist. water) [mg/kg], cadmium (Cd) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], nickel (Ni) (dist. water) [mg/kg], nickel (Ni) (acetic acid 3%) [mg/kg]	
1151159	**Plastic - specific migration metals part 2**	☐	chromium (Cr) (dist. water) [mg/kg], chromium (Cr) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg], iron (Fe) (dist. water) [mg/kg], iron (Fe) (acetic acid 3%) [mg/kg], barium (Ba) (dist. water) [mg/kg], barium (Ba) (acetic acid 3%) [mg/kg], zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg]	
1151050	**Plastic - phthalate content**	☐	DBP (CAS 84-74-2) [g/100g], BBP (CAS 85-68-7) [g/100g], DEHP (CAS 117-81-7) [g/100g], DNOP (CAS 117-84-0) [g/100g], DINP (CAS 28553-12-0) [g/100g], DIDP (CAS 26761-40-0) [g/100g], DEP (CAS 84-66-2) [g/100g], DMP (CAS 131-11-3) [g/100g], DIBP (CAS 84-69-5) [g/100g], DPP (CAS 131-18-0) [g/100g], DHEXP (CAS 84-75-3) [g/100g], DCHP (CAS 84-61-7) [g/100g]	
1151062	**Plastic - bisphenol content**	☐	bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg], bisphenol AF (CAS 1478-61-1) [µg/kg]	
1151132	**Plastic - PAH content**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg]	
1151173	**Plastic, silicone - volatile fractions**	☐	Mass fraction of volatile substances [% (m/m)]	
1151225	**Plastic - PFAS**	☐	total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total fluor (TF) [mg/kg], total organic fluor (TOF) [mg/kg]	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
	Paper and board			on request: info@drrr.de
1151015	**Mineral oil in cardboard**	☐	MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOSH C10-C35 [mg/kg], MOAH C10-C35 [mg/kg]	
1151052	**Migration of mineral oil from cardboard**	☐	MOSH C10-C16 [mg/dm²], MOSH C16-C20 [mg/dm²], MOSH C20-C25 [mg/dm²], MOSH C25-C35 [mg/dm²], MOAH C10-C16 [mg/dm²], MOAH C16-C25 [mg/dm²], MOAH C25-C35 [mg/dm²], MOSH C10-C35 [mg/dm²], MOAH C10-C35 [mg/dm²]	
1151055	**Migration from paper, board using MPPO (EN 14338)**	☐	overall migration (MPPO) [mg/dm²]	
1151067	**Colour fastness of dyed paper (EN 646)**	☐	colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-]	
1151149	**Paper, cardboard - overall migration (fatty test food, solvent extract) (EN 15519)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²]	
1151187	**Paper, cardboard - PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg]	
	Kitchen utensils and dishes			
1151134	**Ceramics - release of lead and cadmium (EN 1388-1)**	☐	lead (Pb) [mg/l], cadmium (Cd) [mg/l]	
1151201	**Metals and alloys - release of metals part 1**	☐	aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg], zirconium (Zr) [mg/kg]	
1151202	**Metals and alloys - release of metals part 2**	☐	aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg], zirconium (Zr) [mg/kg], envelope volume [cm³]	
	Rubber			
1151144	**Rubber - PAH content**	☐	benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], fluoranthene (CAS 206-44-0) [mg/kg]	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
			on request: info@drrr.de
Cosmetics			
1151023	**Care products**	methyl 4-hydroxybenzoate calculated as acid [g/100g], propyl 4-hydroxybenzoate calculated as acid [g/100g], n-butyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g], benzoic acid [g/100g], sorbic acid [g/100g], methylisothiazolinone [mg/kg], isobutyl 4-hydroxybenzoate calculated as acid [g/100g]	
1151024	**Shampoo, lotion**	density [g/ml], pH value [-], dry matter [g/100g], water content [g/100g], urea [g/100g], aw value [-]	
1151026	**Dental care - total fluoride**	total fluoride [g/100g]	
1151071	**Cosmetics - heavy metals (ISO 21392)**	lead (Pb) [mg/kg], arsenic (As) [mg/kg], antimony (Sb) [mg/kg], nickel (Ni) [mg/kg], cobalt (Co) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg]	
1151028	**Cosmetics - UV filters**	EHS (CAS 118-60-5) [g/100g], BMDM (CAS 70356-09-1) [g/100g], EHT (CAS 88122-99-0) [g/100g], PBSA (CAS 27503-81-7) [g/100g], OC calculated as acid (CAS 6197-30-4) [g/100g], titanium dioxide (CAS 13463-67-7) [g/100g], HMS (CAS 118-56-9) [g/100g], BEMT (CAS 187393-00-6) [g/100g], DHHB (CAS 302776-68-7) [g/100g], DEBT (CAS 154702-15-5) [g/100g], PDTA (CAS 180898-37-7) [g/100g], TDSA (CAS 90457-82-2) [g/100g], BZ4 (CAS 4065-45-6) [g/100g], BZ3 (CAS 131-57-7) [g/100g], IMC (CAS 71617-10-2) [g/100g], MBC (CAS 36861-47-9) [g/100g], EHDP (CAS 21245-02-3) [g/100g], EHMC (CAS 5466-77-3) [g/100g], MBBT (CAS 103597-45-1) [g/100g], P15 (CAS 207574-74-1) [g/100g]	
Leather			
1151094	**Leather – total metal content (ISO 17072-2)**	chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zirconium (Zr) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], titanium (Ti) [mg/kg]	
1151194	**Leather - PFAS (ISO 23702-1)**	total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg]	
1151212	**Leather - chromium (VI)**	chromium VI (Cr VI) [mg/kg]	
1151186	**Leather - bisphenols (ISO 11936)**	bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg]	
Textiles			
1151020	**Textiles – phosphorus flame retardants (ISO 17881-2)**	tributyl phosphate (CAS 126-73-8) [mg/kg], o-triskresyl phosphate (CAS 78-30-8) [mg/kg], tris(2-chloroethyl)-phosphate (CAS 115-96-8) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg]	
1151087	**Textiles - PFAS (solvent extraction)**	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutanoic acid (CAS 375-22-4) [µg/kg], total perfluoropentanoic acid (CAS 2706-90-3) [µg/kg], total perfluoroheptanoic acid (CAS 375-85-9) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], 10:2 FTMA (CAS 2144-54-9) [µg/kg]	
1151090	**Textiles - phthalate content (ISO 14389)**	DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg]	
1151091	**Textiles - PAH (EN 17132)**	benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg]	
1151213	**Textiles - bisphenols**	bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg]	
1151229	**Textiles - PFAS (EN 17681-1, alkaline hydrolysis)**	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutanoic acid (CAS 375-22-4) [µg/kg], total perfluoropentanoic acid (CAS 2706-90-3) [µg/kg], total perfluoroheptanoic acid (CAS 375-85-9) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], 6:2 FTOH (CAS 647-42-7) [mg/kg], 8:2 FTOH (CAS 678-39-7) [mg/kg], 10:2 FTOH (CAS 865-86-1) [mg/kg], 12:2 FTOH (CAS 39239-77-5) [mg/kg], total fluor (TF) [mg/kg], total organic fluor (TOF) [mg/kg]	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	additional information / packaging unit / price:
Toys				on request: info@drrr.de
1151040	**Scrapped-off materials - elements (EN 71-3)**	☐	tin (Sn) [mg/kg], zinc (Zn) [mg/kg], nickel (Ni) [mg/kg], strontium (Sr) [mg/kg], antimony (Sb) [mg/kg], barium (Ba) [mg/kg], cadmium (Cd) [mg/kg], cobalt (Co) [mg/kg], lead (Pb) [mg/kg], chromium III (Cr III) [mg/kg], chromium VI (Cr VI) [mg/kg], chromium (Cr) [mg/kg], aluminium (Al) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], manganese (Mn) [mg/kg], mercury (Hg) [mg/kg], selenium (Se) [mg/kg]	
Jewellery				
1151043	**Jewellery (acc. to EN 1811)**	☐	surface area [cm²], nickel release [µg/cm²/week]	

[*] = In individual cases it can happen that there is no reference value available for a listed parameter

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
					on request: info@drrr.de
Canning, glass					
2251004	**Detection of mesophilic microbial load in canned food**	☐	mesophilic germ load (pos./neg.)	**risk group 1**	
2251019	**Detection of thermophilic microbial load in canned food**	☐	thermophilic germ load (55°C) (pos./neg.)	**risk group 1**	
2251020	**Detection of anaerobic mesophilic spore load in canned food**	☐	anaerobic mesophilic germ load (pos./neg.)	**risk group 2**	
Plastic surface					
2251001	**Surface testing - enumeration moulds**	☐	moulds [cfu/100 cm²]	**risk group 1**	
2251002	**Surface testing - enumeration aerobic bacteria**	☐	aerobic total count [cfu/100 cm²]	**risk group 1**	
2251037	**Surface testing - enumeration Enterobacteriaceae**	☐	Enterobacteriaceae [cfu/100 cm²]	**risk group 1**	
2251038	**Surface testing - enumeration Listeria spp.**	☐	Listeria spp. [cfu/100 cm²]	**risk group 2**	
Paper and board					
2251029	**Paper - transition of antimicrobial components (EN 1104)**	☐	antibacterial effect Bacillus subtilis [mm], antimycotic effect Aspergillus niger [mm] (pos./neg.)		
2251039	**Paper, board - enumeration of aerobic bacteria (ISO 8784-2)**	☐	aerobic total count	**risk group 1**	
2251040	**Paper, board - enumeration of moulds (ISO 8784-2)**	☐	moulds	**risk group 1**	
Cosmetic					
2251005	**Enumeration of aerobic bacteria in O W emulsion**	☐	aerobic total count [cfu/g]	**risk group 1**	
2251006	**Enumeration of moulds in O W emulsion**	☐	moulds [cfu/g]	**risk group 1**	
2251007	**Detection of E. coli in O W emulsion**	☐	E.coli (pos./neg.)	**risk group 2**	
2251008	**Detection of S.aureus in O W emulsion**	☐	S.aureus (pos./neg.)	**risk group 2**	
2251009	**Identification of microorganism in O W emulsion**	☐	identifcation of germs	**risk group 2**	
2251010	**Detection of C.albicans in O W emulsion**	☐	C.albicans (pos./neg.)	**risk group 2**	
2251011	**Detection of P.aeruginosa in O W emulsion**	☐	Ps.aeruginosa (pos./neg.)	**risk group 2**	
2251028	**Challenge test**	☐	Ps.aeruginosa [CFU/g], S.aureus [CFU/g], E.coli [CFU/g], C.albicans [CFU/g], A.brasiliensis [CFU/g]	**risk group 2**	
Textiles					
2251024	**Antimicrobial Fabric Test textiles - AATCC 100**	☐	antibacterial activity S.aureus [% reduction], antibacterial activity K.pneumoniae [% reduction]		
2251025	**Antibacterial Parallel Streak textiles - AATCC 147**	☐	antibacterial activity S.aureus, antibacterial activity K.pneumoniae (pos./neg.)		
2251026	**Antibacterial Activity textiles - ISO 20743**	☐	antibacterial activity S.aureus [log10 reduction], antibacterial activity K.pneumoniae [log10 reduction]		
Tattoo ink					
2251012	**Enumeration of aerobic bacteria in tattoo ink**	☐	aerobic total count [cfu/g]	**risk group 1**	

[*] = Sometimes we used more than one method per parameter. The values of the germ contens varies for each material from 10^2 to 10^5 KbE/g or KbE/ml and can be asked before order.

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Reference material - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	material description		Parameters [*]	risk group	additional information / packaging unit / price:
Disinfectant					on request: info@drrr.de
2251013	**Disinfectant bactericidal activity (EN 13727, EN 1276)**	☐	bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml]		
2251014	**Disinfectant levurocidal activity (EN 13624, EN 1650)**	☐	Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml]		
2251015	**Disinfectant mycobactericidal activity (EN 14348)**	☐	mycobactericidal effect M.terrae conc. 1 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 2 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 3 [log10 cfu/ml]		
2251016	**Disinfectant sporocidal activity (EN 17126)**	☐	sporocidal activity B.subtilis [log10 pfu/ml], sporocidal activity B.cereus [log10 pfu/ml]		
2251017	**Disinfectant virucidal activity (EN 14476)**	☐	virucidal effect (Vacciniavirus) conc. 1 [log10 pfu/ml]		

[*] = Sometimes we used more than one method per parameter. The values of the germ contens varies for each material from 10^2 to 10^5 KbE/g or KbE/ml and can be asked before order.

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order form reference material

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Quantity	material type / material description / article no.

For questions and suggestions do not hesitate to contact the DRRR-team!

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For reference materials labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

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ODIN - proficiency testing online

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• Supervisor rights available to overview all PTs of a multi-site company

• Saving of costs through booking and submission of your results via ODIN

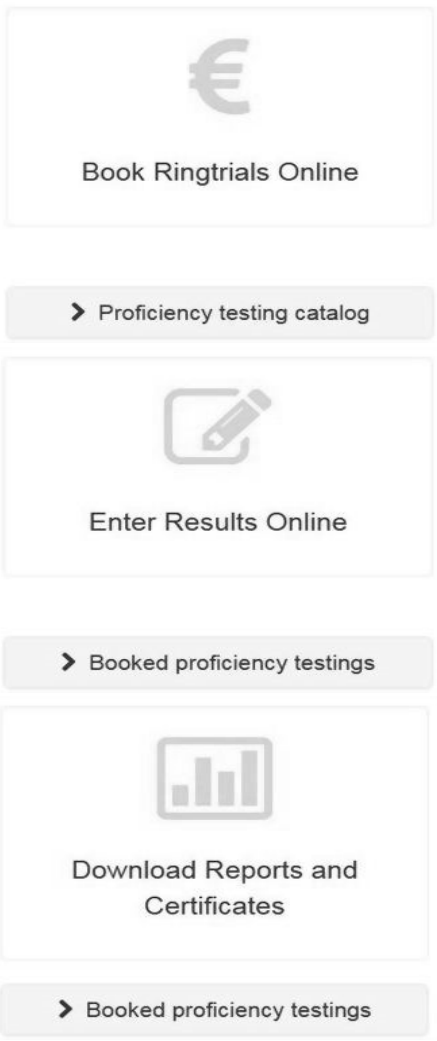
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Proficiency testing organisation

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

• A precise planning and organisation of each proficiency testing round

• 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

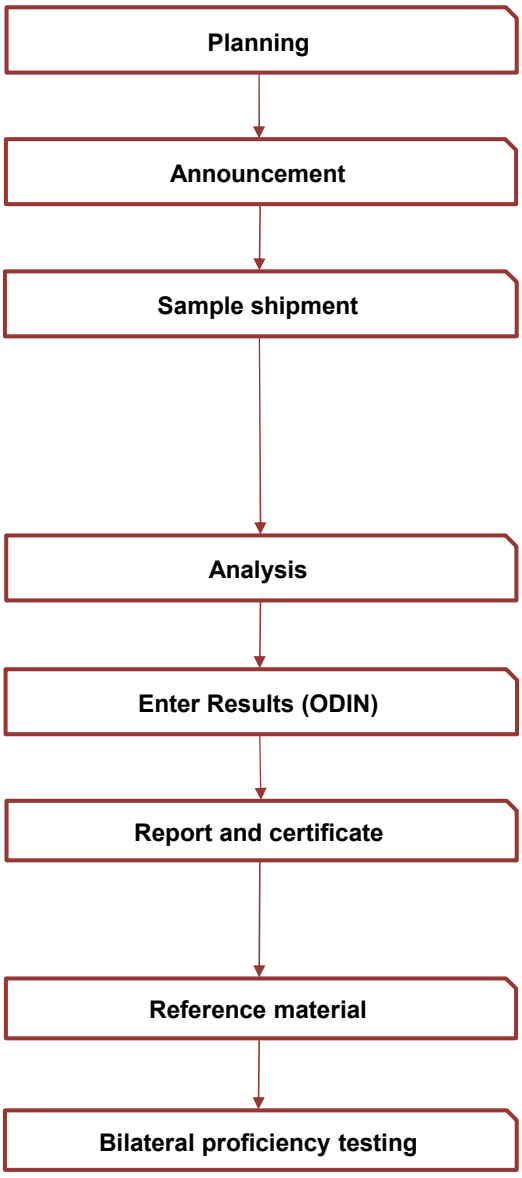
• After receiving the samples you will have a period of approximately 4 weeks for analysing.

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

• After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



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Benefits of proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Why take part in proficiency testing?

• Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers

• Participants can compare, assure and improve their own performance and quality against other laboratories worldwide

• Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories

• Saving on the costs of testing

• Unquestionable lab performance towards customers, authorities and certification authorities

• Saving on the costs of lab development and maintenance

• Saving on the costs of lab development and maintenance

• Saving on production costs by avoiding waste of raw material

Your benefits in DRRR proficiency testing schemes

• Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories

• Saving the costs, because you have the opportunity to analzye more samples and more parameters in one proficiency testing

• External demonstration of your performance with the results of the proficiency testing

• Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence

• Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



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Statistical methods

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogeneous and stable sample material

Laboratory performance:

by calculation of the following paramters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics
(Hampel estimator, Q-method)
- Robust statistics
(Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the chi²-fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



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z'-score > 2: What to do?

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.
These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.
You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.
(* normally not longer than 1 - 2 weeks)
The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

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quality management / quality assurance

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager).
Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.

Please do not hesitate to contact us.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarties for the IR calibartion of selected food will be discussed. The specific peculiarties of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical excericise calibration data sets will be testes for suitability and critical data sets will be identifed.

Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test, qui²-adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.

Inhouse-Training

We consider lectures, training and seminars as in important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

For special requirements we also offer customised training programmes.

For questions about contents and conditions do no hesitate to contact us.

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Sales terms and delivery conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.
Terms of payment: 8 days net, without deduction
Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:
Raiffeisenbank in Allgäuer Land / bank code 733 692 64
Account 102350 / IBAN DE 94733692640000102350
BIC code: GENO DEF1DTA
Sales tax ID no. DE254613132
tax number 127/124/32207

Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked “frozen” are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

Terms of delivery (risk group 1, 2 and 3**)

Proficiency tests or reference materials marked with “Risk Group 1” are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with “risk group 2, or risk group 3**”, we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.

§ 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.
Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.
If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations. The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

§ 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.
The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.
The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.
A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

Cancelation notification period:	Permanent registration (D)
	single (one-time) registration (E)
up to 3 months before the proficiency testing	no costs (D)
	50,00 € (E)
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price (E)
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

§ 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.
Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).
The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.
No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order.
Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.
The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.
The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.
The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.
If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.
The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.
The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.
All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.
In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.
All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.
The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.
For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

§ 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.
Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.
All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded. Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.
The goods remain the property of DRRR until they have been paid for in full by the customer.
The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.
Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.
The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction). Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.
Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

§ 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.
The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.
The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.
If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

§ 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.
The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.
The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

§ 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:
The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.
Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.
Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.
The warranty is limited to the stated expiration date of the reference materials.
This applies to: ieLab, TGZ AQS Baden-Württemberg

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Deutsches
Referenzbüro für
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Material testing

Product catalogue 2026



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Thermoplastics and metals
Proficiency Testing 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Accreditation ISO/IEC 17043 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation [#5494.01]. Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Accreditation DIN EN ISO/IEC 17043 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2023. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00]. Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your benefit



Our proficiency testing schemes cover a wide range of tests and analysis for material testing. Thus you can benefit from our high quality standards in all important testing fields:

in 2026 more than 500 accredited Proficiency testing schemes are offered

By participating in our proficiency testing schemes you have an objective and independent impression of your quality and performance of your routine testing method. Your benefits taking part in DRRR proficiency testing schemes:

- Participation in proficiency testing is required by several facilities
- Participants can compare, assure and improve their own performance and quality
- Recognition of the applied method compared to the other laboratories
- Unquestionable lab performance towards customers and certification authorities
- Saving costs of lab development and maintenance
- Saving on the working time in the lab and many other benefits

Registration/information

Simply brilliant, your proficiency testing with ODIN.



Convenient proficiency testing participation with ODIN easy, safe and clearly
- Direct booking of proficiency testing schemes in our online catalogue
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates

You can also use the following pages as a regsitration form or dowmload them on our homepage:

Proficiency testing 2026 - Material testing - Thermoplastics | Metals

For questions and suggestions do not hesitate to contact us!

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Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - mechanical properties (ISO):					
2010988	**ISO 527-1,-2**	☐	Tensile test	Apr-26	
2010765	**ISO 527-1,-2**	☐	Tensile Test at +80°C	Apr-26	
2010766	**ISO 527-1,-2**	☐	Tensile Test at -30°C	Apr-26	
2010881	**ISO 899-1**	☐	Tensile creep	Apr-26	
2010989	**ISO 178**	☐	Flexural test	Apr-26	
2010004	**ISO 16770**	☐	Full-notch creep test (FNCT)	Apr-26	
2010756	**ISO 604**	☐	Compression test (strength, elongation)	Apr-26	
2010773	**ISO 179-1 (1eU)**	☐	Charpy impact	Apr-26	
2010782	**ISO 179-1 (1eA)**	☐	Notched Charpy impact	Apr-26	
2010824	**ISO 179-1**	☐	Charpy impact at -30°C	Apr-26	
2010774	**ISO 180**	☐	Izod impact	Apr-26	
2010884	**DIN 53435**	☐	Impact test on dynstat test specimens	Apr-26	
2010885	**DIN 53435**	☐	Bending test on dynstat test specimens	Apr-26	
2010977	**ISO 8256**	☐	Tensile-impact strength	Apr-26	
2010882	**ISO 6603-2**	☐	Instrumented impact test	Apr-26	
2010757	**ISO 6721-5**	☐	Dynamic-mechanical-Analysis (DMA)	Apr-26	
Plastics - mechanical properties (ASTM):					
2010886	**ASTM D638**	☐	Tensile test	Apr-26	
2010888	**ASTM D790**	☐	Flexural test	Apr-26	
2010006	**ASTM D256**	☐	Izod impact properties +23 °C	Apr-26	
2010883	**ASTM D3763**	☐	Instrumented impact test	Apr-26	
Specimen injection moulding (type 1A):					
2010785	**ISO 527-1,-2**	☐	Injection moulding of specimen (type 1A) and tensile test	Apr-26	
2010786	**ISO 178**	☐	Injection moulding of specimen (type 1A) and flexural test	Apr-26	
2010787	**ISO 179-1**	☐	Injection moulding of specimen (type 1A) and Charpy impact resistance	Apr-26	
2011420	**ISO 294-4**	☐	Moulding shrinkage	Apr-26	
Cutting of specimen:					
2010813	**ISO 527-1,-2**	☐	Cutting of specimen (type 1B) and tensile test	Apr-26	
2010814	**ISO 527-1,-2**	☐	Cutting of specimen (type 5A) and tensile test	Apr-26	
Plastics - polyamide 6 and 6.6:					
2010815	**ISO 527-1,-2**	☐	Tensile test polyamide 6 and 66	Apr-26	
2010816	**ISO 178**	☐	Flexural test polyamide 6 and 66	Apr-26	
2010817	**ISO 179-1**	☐	Charpy flexural impact test polyamide 6 and 66	Apr-26	
Plastics - Dimensions of test specimens:					
2010978	**freely selectable**	☐	Width and thickness of specimen (type 1A)	Apr-26	
Plastics - water content | water absorption:					
2010793	**ISO 15512**	☐	Water content (Karl-Fischer)	Apr-26	
2010865	**ISO 15512**	☐	Water content (Aquatrac®) CaH2-Method	Apr-26	
2010796	**ISO 62**	☐	Water absorption	Apr-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - density | hardness | ash content:					
2010769	**ISO 1183-1 and ASTM D792 (Apr.)**	☐	Density	Apr-26	
2010984	**ISO 1183-1 and ASTM D792 (Oct.)**	☐	Density	Oct-26	
2010741	**ISO 1172 and ISO 3451-1**	☐	Ash content	Apr-26	
2010651	**ASTM D5630**	☐	Ash content	Apr-26	
2010742	**ISO 868**	☐	Shore-D-Hardness	Apr-26	
2010811	**ISO 2039-1**	☐	Ball indentation hardness	Apr-26	
Plastics - rheological properties:					
2010825	**ISO 1133-1 and ASTM D1238 (Mar.)**	☐	Melt flow and volume index (MFR-MVR)	Mar-26	
2010008	**ISO 1133-1 and ASTM D1238 (Oct.)**	☐	Melt flow and volume index (MFR-MVR)	Oct-26	
2010861	**ISO 1133**	☐	Melt flow - volume rate (high temperature above 300°C)	Mar-26	
2010213	**ISO 1133-2**	☐	MFR-MVR (moisture sensitive material)	Mar-26	
2010795	**ISO 307**	☐	Viscosity number (sulfuric acid)	Mar-26	
2010858	**ISO 307**	☐	Viscosity number (formic acid)	Mar-26	
2010859	**ISO 1628-5**	☐	Viscosity number of PBT	Mar-26	
2010788	**ISO 11443**	☐	Fluidity of plastics - capillary rheometer	Mar-26	
2010789	**ISO 6721-10**	☐	Complex shear viscosity (parallel-plate)	Mar-26	
Plastics - thermal properties, Infrared spectroscopy:					
2010743	**ISO 11357-3 and ASTM D3418 (Mar.)**	☐	DSC-analysis - Melting temperature and enthalpy	Mar-26	
2010985	**ISO 11357-3 and ASTM D3418 (Oct.)**	☐	DSC-analysis - Melting temperature and enthalpy	Oct-26	
2010854	**ISO 11357-2 and ASTM D3418**	☐	DSC-analysis - Glass transition temperature	Mar-26	
2010855	**ISO 11357-6 and ASTM D3895**	☐	DSC-analysis - Oxidation Induction time (OIT)	Mar-26	
2010297	**ISO 11357-4**	☐	DSC-Analysis - specific heat capacity	Mar-26	
2010745	**ISO 11358**	☐	Thermogravimetry (TGA) - filler content	Mar-26	
2010303	**ISO 6964**	☐	Carbon black content calcination and pyrolysis	Mar-26	
2010758	**ISO 11359**	☐	Coefficient of linear thermal expansion (CTLE)	Apr-26	
2010775	**ISO 306**	☐	Vicat softening point	Apr-26	
2010790	**ISO 75**	☐	Temperature of deflection under load	Apr-26	
2010818	**freely selectable**	☐	Quantitative Infrared spectroscopy	Mar-26	
2011419	**ISO 22007-2**	☐	Thermal conductivity - hot disc	Apr-26	
Recommendation from category "consumer goods":					
2010210	**freely selectable**	☐	Identification of plastic granulates	Mar-25	
2010167	**freely selectable**	☐	Identification PA types (e.g. PA6, PA 11)	Mar-25	
Plastics - emissions:					
2010851	**VDA 270 - PV 3900**	☐	Odourtest	Mar-26	
2010555	**GMW 3205**	☐	Odour test	Mar-26	
2010869	**VDA 275 - PV 3925**	☐	Formaldehyde emission	Mar-26	
2010843	**VDA 277 - PV 3341**	☐	Total carbon emission	Mar-26	
2010870	**VDA 278**	☐	Thermal desorption analysis	Mar-26	
2010797	**DIN 75201**	☐	Fogging behaviour (method A)	Mar-26	
2010557	**GMW 3235**	☐	Fogging behaviour (method A)	Mar-26	
2010798	**DIN 75201 - PV 3015**	☐	Fogging behaviour (method B)	Mar-26	
2010559	**GMW 3235**	☐	Fogging behaviour (method B)	Mar-26	
2011423	**ISO 12219-4,-6**	☐	Emissions organic compounds - small chamber	Oct-26	
2011424	**ISO 16000-3,-6**	☐	Emissions of carbonyl - and organic compounds	Oct-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - surfaces:					
2010722	**ISO 2813**	☐	Specular gloss	Mar-26	
2010649	**ASTM D523**	☐	Specular Gloss	Mar-26	
2010821	**DIN 53236-A**	☐	Colour Measurement 8°	Mar-26	
2010771	**DIN 53236-B**	☐	Colour Measurement 45°	Mar-26	
2011106	**VW 50195**	☐	Automotive Paint Finish - Colorimetric Evaluation	May-26	
2010822	**PV 3952**	☐	Scratch resistance	Mar-26	
2010823	**ISO 1518-1**	☐	Erichsen Hardness test pencil	Mar-26	
2010871	**ISO 19403-2**	☐	Contact angle and surface energy	Mar-26	
2010893	**ISO 9352**	☐	Abrasion by abrasive wheels (Taber)	Mar-26	
2010981	**PV 3987**	☐	Micro scratch resistance	Mar-26	
2010699	**PV 3974**	☐	Mar Resistance of Surfaces	Apr-26	
2010719	**PV 3991**	☐	Skin abrasion test	Apr-26	
2010693	**PV 3966**	☐	Stress Whitening Properties (Ball Drop Test)	Apr-26	
2010717	**PV 3989**	☐	Ball Drop Test	Apr-26	
Plastics - paintwork:					
2010972	**ISO 2409**	☐	Cross-cutting test	May-26	
2010539	**PV 3964**	☐	Cream resistance	May-26	
2010849	**DBL 5425**	☐	Multiple stone impact test	May-26	
2010221	**ISO 20567-1**	☐	Multiple stone impact test	May-26	
2011042	**SAE J400**	☐	Chip Resistance	May-26	
2010845	**DBL 5425**	☐	Steam jet test	May-26	
2010703	**TL 211 (ISO 16925-C)**	☐	Steam-jet test	May-26	
2011045	**IEC 60068-2-70**	☐	Abrasion caused by rubbing	May-26	
2010217	**PV 1200**	☐	Environmental Cycle Test	May-26	
2010541	**ISO 2808 (6A, Var. 1)**	☐	Film thickness - Cross sectioning by grinding	May-26	
2010641	**ISO 2808 (6A, Var. 2)**	☐	Film thickness - Cross sectioning by cutting	May-26	
2010543	**DBL 5425 (A.1.17)**	☐	Wash scratch resistance (Amtec-Kistler)	May-26	
2010545	**DBL 5425 (A.1.17)**	☐	Wipe scratch resistance (Crockmeter)	May-26	
2010721	**PV 3.3.3**	☐	Scratch Resistance of Clear Coats	May-26	
Plastics - electroplating:					
2010239	**ISO 1456 (ISO 1463, ISO 2177, ISO 9220)**	☐	Coating thickness (Cu-Ni-Cr)	May-26	
2010241	**ISO 16866, ASTM B764**	☐	Coating thicknesses, potential difference (nickel layers)	May-26	
2010243	**DIN 53100**	☐	Number of micropores - microcracks	May-26	
2010219	**DBL 1665**	☐	Corrosion testing CASS (48 h)	May-26	
2010661	**PV 1058**	☐	Micro-crack pattern	May-26	
2010663	**PV 1063**	☐	Micropore Density	May-26	
2010665	**PV 1065**	☐	Potential Differences, Layer Thicknesses of Nickel	Sep-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - Light fastness / Exposure tests					
	Evaluation: Color change with grey scale and instrumental				
2010799	**ISO 105-B06**	☐	Light fastness	Apr-26	[P]
2010667	**PV 1303**	☐	Xenon Arc Light Aging	Mar-26	
2010867	**ISO 4892-2**	☐	Light fastness Xenon Arc light (cycle 1)	Apr-26	[P]
2010866	**ASTM G155**	☐	Light fastness Xenon Arc light (cycle 1)	Apr-26	[P]
2010868	**ISO 4892-3 and ASTM G154**	☐	Exposure to laboratory light (UV lamps)	Apr-26	[P]
2010128	**PV 3929**	☐	Weathering (Dry, Hot) - Kalahari test	Apr-26	
2010130	**PV 3930**	☐	Weathering (Humid, Hot) - Florida test	Apr-26	
2010846	**DIN 75220 D-IN1-T, VDA 230-219**	☐	Sunlight simulation	Apr-26	[P]
2011421	**SAE J2527**	☐	Accelerated Exposure (Exterior)	Oct-26	
2011422	**SAE J2412**	☐	Accelerated Exposure (Interior)	Oct-26	
			[P] = return of the tested samples is required		
	Evaluation: Change of mechanical properties				
2010016	**ISO 4892-2**	☐	Light fastness cycle 1 (mechanics)	Apr-26	
Assessing - Change in colour / Staining / Blistering:					
2010026	**ISO 105 A02, A03**	☐	Visual evaluation with grey scale	Apr-26	
2010919	**ISO 105 A04, A05**	☐	Instrumental assessment	Apr-26	
2010701	**ISO 4628-2**	☐	Degree of blistering (quantity and size)	Apr-26	
2011046	**ISO 4628-3**	☐	Degree of rusting	Apr-26	

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Proficiency tests - Thermoplastics | Pipes

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
			Burning behaviour / Fire hazard / Electrical properties:		Login or register
2010819	**FMVSS 302 and DIN 75200**	☐	Plastics - burning rate	Mar-26	
2010862	**UL 94 HB and IEC 60695-11-10**	☐	Burning rate	Mar-26	
2010863	**UL 94 V and IEC 60695-11-10**	☐	Burning rate	Mar-26	
2010655	**TL 1010**	☐	Burning behavior	Mar-26	
2010659	**TL 1011**	☐	Flammability	Mar-26	
2010547	**IEC 62631-3-2, VDE 0307-3-2**	☐	Surface resistance	May-26	
2010549	**IEC 62631-3-1, VDE 0307-3-1**	☐	Volume resistivity	May-26	
2010864	**IEC 60695-2-13**	☐	Glow wire ignitability temperature (GWIT)	Mar-26	
2010979	**IEC 60112**	☐	CTI – Tracking	Mar-26	
			Plastic pipes / pipe materials (PE)		
2010792	**ISO 1167-1 -2**	☐	Resistance to internal pressure	Mar-26	
2010890	**ISO 17454**	☐	Adhesion of multilayer pipes	Mar-26	
2010891	**ISO 9969**	☐	Thermoplastics pipes - ring stiffness	Mar-26	
2010980	**freely selectable**	☐	Wall thickness measurement of plastic pipes	Mar-26	
2010004	**ISO 16770**	☐	Full-notch creep test (FNCT)	Apr-26	
2010118	**ISO 18488**	☐	Strain Hardening Modulus	Apr-26	
2010120	**ISO 18489**	☐	Crack growth - cracked round bar (CRB)	Apr-26	
2010529	**ISO 10147**	☐	Degree of crosslinking of PE-X	Apr-26	
			Plastic films		
2010777	**ISO 527-3**	☐	Tensile test on plastic films	Mar-26	
2010970	**ISO 7765-1**	☐	Impact resistance – free-falling dart	Mar-26	
2010838	**ISO 6383-2, ASTM D1922**	☐	Tear resistance - Elemdorf method	Mar-26	
2010779	**ISO 4593**	☐	Film thickness	Mar-26	
2010780	**ISO 8295**	☐	Coefficients of friction	Mar-26	
2010879	**ISO 11339**	☐	T-Peel test	Mar-26	**Migration testing:**
2010880	**DIN 55529**	☐	Sealed-seam strength	Mar-26	Proficiency Tests for overall and specific migration can be found in the category consumer goods or in our online catalogue
2010847	**ISO 15106-3**	☐	Water vapour transmission rate	Mar-26	
2010844	**ISO 15105-2**	☐	Gas transmission rate	Mar-26	
2010518	**ISO 15106-2**	☐	Water vapour transmission rate (IR sensor)	Mar-26	
2010781	**ISO 14782**	☐	Transparency - Haze	Mar-26	
2010012	**DIN 55543-5**	☐	Films - Adhesion strength	Mar-26	
2010312	**freely selectable**	☐	Identification of multi layer films	Mar-25	
2010115	**freely selectable**	☐	Identification of mono layer films	Sep-25	
2011205	**ISO 8296, ASTM D2578**	☐	Wetting tension (red test ink)	Jan-26	
2011237	**EN 14477**	☐	Puncture resistance	Mar-26	
2011238	**freely selectable**	☐	Multi layer film - layer thickness microtome cut	Mar-26	
2011239	**ASTM F88, EN 868-5 Appendix D**	☐	Plastic film construction - Sealed-seam strength	Mar-26	
2011413	**ASTM F2096**	☐	Gross Leaks Detection - Bubble Test	Mar-26	
2011414	**ASTM F1140**	☐	Burst Strength Test	Mar-26	
2011415	**ASTM F1929**	☐	Leak Detection - Dye Penetration Test	Mar-26	

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Proficiency tests - Rubber and TPE | Geosynthetics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Rubber and TPE:					
2010727	**ISO 2781**	☐	Density of rubber	May-26	
2010728	**ISO 37**	☐	Tensile properties (specimen type 2, S2)	May-26	
2010729	**ISO 37**	☐	Tensile properties (specimen type 3, S3A)	May-26	
2011033	**VDI 2019**	☐	Adhesion of thermoplastic elastomers (TPE)	May-26	
2010894	**ASTM D412**	☐	Tensile properties	May-26	
2010897	**ISO 34-1**	☐	Tear strength - trouser test piece	May-26	
2010761	**ISO 34-1**	☐	Tear strength - Angle test piece (without nick)	May-26	
2010760	**ISO 34-1**	☐	Tear strength - Angle test piece (with nick)	May-26	
2010895	**ISO 815**	☐	Compression set	May-26	
2010900	**ISO 815-2**	☐	Compression set at lower temperature	May-26	
2010896	**ISO 2285**	☐	Tension set	May-26	
2010731	**ISO 48-4 and ISO 868**	☐	Shore-A-Hardness	May-26	
2010898	**ASTM D2240**	☐	Shore-A-Hardness	May-26	
2010748	**ISO 48-2**	☐	Hardness IRHD, M	May-26	
2010899	**ISO 48-2**	☐	Hardness IRHD, N	May-26	
2010267	**ISO 48-4**	☐	Hardness Shore D	May-26	
2010762	**ISO 4662**	☐	Rebound resilience	May-26	
2010763	**ISO 4649**	☐	Abrasion resistance	May-26	
2010746	**ISO 11357-2 (rubber)**	☐	DSC-Analysis - glass transition temperature	May-26	
2010875	**ISO 1407**	☐	Solvent extract	May-26	
2010764	**ISO 289-1**	☐	Mooney viscosity	May-26	
2010749	**ISO 1817**	☐	Increase in mass	May-26	
2010750	**ISO 11358**	☐	Thermogravimetry - black carbon content (TGA)	May-26	
2010269	**ISO 1431-1**	☐	Resistance to ozone cracking	May-26	
2010508	**ISO 188**	☐	Accelerated ageing and heat resistance	May-26	
2010671	**PV 3305**	☐	Ozone Resistance and Permanent Deformation	May-26	
2010673	**PV 3307**	☐	Plastic and Elastic Deformability	May-26	
2010675	**PV 3330**	☐	O-Rings - Compression Set	May-26	
2010697	**PV 3973**	☐	O-Rings - Tensile test	May-26	
2010677	**PV 3366**	☐	Wear Characteristics of Flocking	May-26	
2010715	**PV 3988 (4.1)**	☐	Anti-Friction Coating - Coating thickness	Jan-26	
Geosynthetics (geomembrane):					
2010901	**ISO 527-1,-3**	☐	Tensile test geosynthetics	Mar-26	
2010902	**ASTM D6693**	☐	Tensile Properties of PE - PP Geomenbranes	Mar-26	
2010903	**ASTM D1004**	☐	Tear Resistance (Graves Tear)	Mar-26	
2010904	**ISO 12236**	☐	Static Puncture Test (CBR-Test)	Mar-26	
2010906	**ISO 9863-1**	☐	Thickness at specified pressures	Mar-26	
2010759	**ISO 11358**	☐	Carbon black content (TGA)	Apr-26	

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Proficiency tests - Foams | Composites | Paper

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
Foams (ISO / DBL / ASTM):					Login or register
2010848	**ISO 845**	☐	Cellular plastics - Apparent density	Apr-26	
2010829	**ISO 1798**	☐	Cellular plastics - Tensile test	Apr-26	
2010034	**ISO 8067**	☐	Cellular plastics - Tear strenght (method B)	Apr-26	
2010730	**ISO 1856**	☐	Cellular plastics - Compression set	Apr-26	
2010831	**ISO 3386-1**	☐	Cellular plastics - Compression	Apr-26	
2010038	**ISO 2439**	☐	Cellular plastics - Hardness	Apr-26	
2010874	**FMVSS 302 and DBL 5307**	☐	Cellular plastics - Burning rate	Apr-26	
2010040	**ASTM D3574 B1**	☐	Cellular plastics - Indentation Force	Apr-26	
2010042	**ASTM D3574 C**	☐	Cellular plastics - Compression Force	Apr-26	
2010044	**ASTM D3574 D**	☐	Cellular plastics - Compression Set	Apr-26	
2010046	**ASTM D3574 E**	☐	Cellular plastics - Tensile Test	Apr-26	
2010048	**ASTM D3574 F**	☐	Cellular plastics - Tear Resistance	Apr-26	
Composites - Fibre-reinforced plastics:					
2010971	**ASTM D2583, EN 59**	☐	Barcol hardness	May-26	
2010060	**EN 2564**	☐	Fibre-, resin- and void contents	May-26	
2010726	**ISO 14125**	☐	Flexural properties	May-26	
2010724	**ISO 14126**	☐	Compressive properties	May-26	
2010725	**ISO 14129**	☐	45° tension test method	May-26	
2010772	**ISO 14130**	☐	Apparent interlaminar shear strength	May-26	
2010723	**ISO 527-1,-4**	☐	Tensile properties	May-26	
2010768	**ISO 527-1,-5**	☐	Tensile properties	May-26	
2011048	**ASTM D7078**	☐	Rail Shear Method	May-26	
2010062	**ISO 2555**	☐	Resins - apparent viscosity	May-26	
Cured-in-place pipes (CIPP):					
2010537	**ISO 11296-4**	☐	CIPP - Short-term flexural properties	May-26	
Paper | Board:					
2011024	**ISO 2528**	☐	Sheet materials - Water vapour transmission rate	Oct-26	
2011025	**ISO 535**	☐	Paper and board - Water absorptiveness (Cobb)	Oct-26	
2011026	**ISO 5636-3**	☐	Paper and board - Air permeance (Bendtsen)	Oct-26	
2011027	**ISO 5636-5**	☐	Paper and board - Air permeance (Gurley)	Oct-26	
2011028	**ISO 536**	☐	Paper and board - Grammage	Oct-26	
2011029	**ISO 534**	☐	Paper and board - Thickness, density, specific volume	Oct-26	
2011030	**ISO 12625-3**	☐	Tissue products - Thickness	Oct-26	
2011031	**ISO 12625-8**	☐	Tissue products - Water-absorption capacity	Oct-26	
2011032	**ISO 12625-6**	☐	Tissue products - Grammage	Oct-26	

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Thermoplastics and metals
Registration - Proficiency test 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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Do not hesitate to contact the DRRR-team:

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Additional samples are required for the following tests:

Quantity	**Art.- No./ Proficiency testing type**

If you register for a large number of Profciency tests please contact us for special prices!

☐ An offer with the total costs is needed
☐ A Purchase order from the purchasing department will follow

Registration by mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	company
	company (additional line)
	contact person
	street
	post-code /city
	country (if not Germany)
	e-mail
	VAT-ID-No. (only EU)

date:

Metals
Proficiency Testing 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Accreditation ISO/IEC 17043 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation [#5494.01]. Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

ilac-MRA A2LA ACCREDITED CERT #5494.01

Your benefit



Our proficiency testing schemes cover a wide range of tests and analysis for material testing. Thus you can benefit from our high quality standards in all important testing fields:

in 2026 more than 500 accredited Proficiency testing schemes are offered

By participating in our proficiency testing schemes you have an objective and independent impression of your quality and performance of your routine testing method. Your benefits taking part in DRRR proficiency testing schemes:

- Participation in proficiency testing is required by several facilities
- Participants can compare, assure and improve their own performance and quality
- Recognition of the applied method compared to the other laboratories
- Unquestionable lab performance towards customers and certification authorities
- Saving costs of lab development and maintenance
- Saving on the working time in the lab and many other benefits

Registration/information

Simply brilliant, your proficiency testing with ODIN.



Convenient proficiency testing participation with ODIN easy, safe and clearly
- Direct booking of proficiency testing schemes in our online catalogue
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates

You can also use the following pages as a regsitration form or dowmload them on our homepage:

Proficiency testing 2026 - Material testing - Metals

For questions and suggestions do not hesitate to contact us!

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Proficiency tests - Metals

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Metals - mechanical properties (aluminum):					
2011315	**ISO 6506-1**	☐	Aluminum - Hardness Brinell [HBW 2,5/ 62,5]	Oct-26	
2011316	**ISO 6507-1**	☐	Aluminum - Hardness Vickers [HV 5]	Oct-26	
			Item numbers 2011315 & 2011316 can be booked as a package with a price advantage!		
2011317	**ISO 6892-1 - unmachined specimens**	☐	Aluminum - Tensile test (flat)	Oct-26	
2011318	**ISO 6892-1 - unmachined specimens**	☐	Aluminum - Tensile test (round)	Oct-26	
2011432	**ASTM E8,E8M - unmachined specimens**	☐	Aluminum - Tensile test (round)	Oct-26	
Metals - mechanical properties (steel):					
2011319	**ISO 6506-1**	☐	Steel - Hardness Brinell [HBW 2,5/ 187,5]	Oct-26	
2011320	**ISO 6507-1**	☐	Steel - Hardness Vickers [HV 30]	Oct-26	
			Item numbers 2011319 & 2011320 can be booked as a package with a price advantage!		
2011321	**ISO 6508-1**	☐	Steel - Hardness Rockwell C	Oct-26	
2011429	**ASTM E10**	☐	Steel - Hardness Brinell [HBW 10/3000]	Oct-26	
2011430	**ISO 6507-1**	☐	Steel - Microhardness Vickers [HV 0,5]	Oct-26	
2011322	**ISO 6892-1 - unmachined specimens**	☐	Steel - Tensile test (flat)	Oct-26	
2011323	**ISO 6892-1 - unmachined specimens**	☐	Steel - Tensile test (round)	Oct-26	
2011431	**ASTM E8,E8M - unmachined specimens**	☐	Steel - Tensile test (round)	Oct-26	
2011324	**ISO 148-1**	☐	Steel - Charpy impact test (20-40 J)	Oct-26	
2011325	**ISO 148-1**	☐	Steel - Charpy impact test (80-120 J)	Oct-26	
Metals - corrosion testing:					
2010820	**ISO 9227**	☐	Corrosion testing (NSS)	Apr-26	
2010018	**ISO 9227**	☐	Corrosion testing (CASS)	Apr-26	
2010561	**ISO 9227**	☐	Corrosion testing (AASS)	Apr-26	
2010020	**ASTM B117**	☐	Salt Spray test	Apr-26	
2010022	**GMW 14872**	☐	Exterior Cyclic Corrosion	Apr-26	
2010520	**DBL 1551.10 (KWT 1 steel)**	☐	Corrosion cycle test	May-26	
2010921	**DBL 1551.20 (CCT 2 steel, galvanized)**	☐	Corrosion cycle test	May-26	
2011043	**PV 1210**	☐	Corrosion Test	May-26	
2011044	**ISO 11997-1 (cycle A)**	☐	Corrosion Test	May-26	
2011047	**ISO 22479**	☐	Saturated atmosphere SO2 (Kesternich)	May-26	
2011428	**ISO 6509-1**	☐	Copper alloy with zinc - Dezincification resistance	Apr-26	
2011427	**ASTM G48 (method A)**	☐	Corrosion testing	Apr-26	
Metals - chemical analysis (Spark OES):					
2011433	**freely selectable**	☐	Steel (low alloyed) - Emission spectrometry	Oct-26	
2011434	**freely selectable**	☐	Steel (unalloyed) - Emission spectrometry	Oct-26	
2011435	**freely selectable**	☐	Stainless steel - Emission spectrometry	Oct-26	

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Proficiency tests - Metals

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Metals - paintwork:					
2010024	**ISO 6270-2**	☐	Condensation atmosphere constant humidity (CH)	Mar-26	
2010295	**ISO 2360**	☐	Coating thickness Amplitude-sensitive eddy-current method	May-26	
2010615	**ISO 2178**	☐	Coating thickness - Magnetic method	May-26	
2010927	**DBL 1551.30**	☐	Technical-mechanical tests	Oct-26	
Metals - X-ray fluorescence analysis (XRF):					
2010171	**freely selectable**	☐	Determination of elements by X-ray fluorescence analysis (XRF), e.g. nickel, copper, zinc, lead	Jul-25	
2010371	**ISO 3497**	☐	Coating thickness - X-ray spectrometric method	Mar-26	
Metals - surfaces Technical Cleanliness of components:					
2011172	**VDA 19.1, ISO 16232**	☐	Cleanliness (gravimetric)	May-26	

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Metals
Registration - Proficiency test 2026

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Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

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	company (additional line)
	contact person
	street
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	e-mail
	VAT-ID-No. (only EU)

date:

Textiles | Leather | PPE
Proficiency Testing 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Accreditation ISO/IEC 17043 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation [#5494.01]. Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Accreditation DIN EN ISO/IEC 17043 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2023. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00]. Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your benefit



Our proficiency testing schemes cover a wide range of tests and analysis for material testing. Thus you can benefit from our high quality standards in all important testing fields:

in 2026 more than 500 accredited Proficiency testing schemes are offered

By participating in our proficiency testing schemes you have an objective and independent impression of your quality and performance of your routine testing method. Your benefits taking part in DRRR proficiency testing schemes:

- Participation in proficiency testing is required by several facilities
- Participants can compare, assure and improve their own performance and quality
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Registration/information

Simply brilliant, your proficiency testing with ODIN.



Convenient proficiency testing participation with ODIN easy, safe and clearly
- Direct booking of proficiency testing schemes in our online catalogue
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates

You can also use the following pages as a regsitration form or dowmload them on our homepage:

Proficiency testing 2026 - Material testing - Textiles | Leather | PPE

For questions and suggestions do not hesitate to contact us!

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Proficiency tests - Textiles

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Textiles - Fabric properties:					
2010733	**EN 12127 ISO 3801**	☐	Mass per unit area of fibre materials	May-26	
2011372	**ISO 7211-5**	☐	Linear density of yarn	May-26	
2010983	**freely selectable**	☐	Construction of fabric	May-26	
2010732	**ISO 9073-2**	☐	Thickness of nonwovens	May-26	
2010070	**ISO 9073-4**	☐	Tear resistance nonwovens	May-26	
2010635	**ISO 9073-3**	☐	Tensile properties of nonwovens	May-26	
2010734	**ISO 13934-1**	☐	Tensile properties - strip method	May-26	
2010837	**ISO 13934-2**	☐	Tensile properties - grab method	May-26	
2010778	**ISO 13937-1**	☐	Tear properties - Elmendorf method	May-26	
2010800	**ISO 13937-2**	☐	Tear properties - trouser shaped specimen	May-26	
2010801	**ISO 13937-3**	☐	Tear properties - wing shaped specimen	May-26	
2010802	**ISO 12947-2**	☐	Abrasion resistance - Martindale	May-26	
2010637	**ISO 12947-3**	☐	Abrasion resistance Martindale (mass loss)	May-26	
2010803	**ISO 12945-1**	☐	Pilling properties - Pilling box	May-26	
2010804	**ISO 12945-2**	☐	Pilling properties - Martindale	May-26	
2010841	**ISO 13936-1**	☐	Slippage resistance yarn - Fixed seam opening	May-26	
2011103	**ISO 13936-2**	☐	Slippage resistance yarns - Fixed load	May-26	
2010072	**ISO 13935-1**	☐	Maximum force seam	May-26	
2011177	**ISO 13935-2**	☐	Maximum force seam - grab method	May-26	
2010842	**ISO 13938-1,-2**	☐	Bursting strength and Bursting distension	May-26	
2010751	**ISO 3071**	☐	pH value of textiles	May-26	
2010973	**DIN 54278-1**	☐	Textiles - materials soluble	May-26	
2011178	**ISO 16322-2**	☐	Textiles - spirality after laundering	May-26	
2011179	**ISO 15487**	☐	Textiles - Self-flatness behavior	May-26	
2011228	**ISO 20932-1**	☐	Elasticity of fabrics (strip test)	May-26	
Textiles - fabric and functional properties (Automotive):					
2010669	**PV 2034**	☐	Floating Roller Peel Test	Mar-26	
2010679	**PV 3906**	☐	Abrasion Behavior	May-26	
2010681	**PV 3908**	☐	Wear Resistance	May-26	
2010683	**PV 3909**	☐	Static and Permanent Elongation	May-26	
2011105	**PV 3949**	☐	Upholstery Cover Materials - Snag Test	Jan-26	
2010689	**PV 3955**	☐	Trim Cover Material - Seam Slippage Resistance	May-26	
2010691	**PV 3961**	☐	Trim Cover Material - Hook Fastener Test	May-26	
Textiles - Functional properties					
2010805	**freely selectable**	☐	Colour measurement diffuse 8°-geometry	May-26	
2010839	**ISO 811**	☐	Hydrostatic pressure test	May-26	
2011175	**UN, ECE R118 appendix 8**	☐	Vertical burning rate	May-26	
2011176	**ISO 6941**	☐	Textiles - Burning behaviour vertically oriented specimens	May-26	
2010840	**ISO 5077 - ISO 6330**	☐	Dimensional change in washing	May-26	
2010807	**ISO 15797**	☐	Industrial washing and colour change	May-26	
2010832	**ISO 9237**	☐	Permeability to air	May-26	
2010808	**FMVSS 302 and DIN 75200**	☐	Textiles - burning rate	May-26	
2010995	**ISO 11092**	☐	Thermal and water vapour resistance	May-26	
2010237	**ASTM E96 (BW)**	☐	Water Vapor Transmission	May-26	
2010074	**AATCC 22**	☐	Spray test - resistance to surface wetting ISO 4920	May-26	
2010319	**ISO 9865**	☐	Bundesmann Rain-shower test	May-26	
2010092	**ISO 14419**	☐	Oil repellency	May-26	
2010514	**EN 13758-1**	☐	Solar UV protective properties	May-26	

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Proficiency tests - Textiles

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
Textiles - Colour fastness:					Login or register
2010809	**ISO 105-B02**	☐	Colour fastness to light - Xenon arc	Oct-26	
2010810	**ISO 105-B04**	☐	Colour fastness to light - Xenon arc	Oct-26	
2010510	**ISO 105-B07**	☐	Colour fastness to light - artificial perspiration	Oct-26	
2010833	**ISO 105-C06 (C2S)**	☐	Colour fastness to washing 60°	Oct-26	
2010735	**ISO 105-X12**	☐	Colour fastness to rubbing - Crockmeter	Oct-26	
2010834	**ISO 105-C08**	☐	Colour Fastness to washing 60°C	Oct-26	
2010629	**ISO 105-C10**	☐	Colour fastness to washing with soap (and soda)	Oct-26	
2010835	**ISO 105-D01**	☐	Colour Fastness to dry cleaning	Oct-26	
2010752	**ISO 105-E01**	☐	Colour Fastness to water	Oct-26	
2010223	**ISO 105-E02**	☐	Colour Fastness to sea water	Oct-26	
2010229	**ISO 105-E03**	☐	Colour Fastness to chlorinated water	Oct-26	
2010736	**ISO 105-E04**	☐	Colour Fastness to perspiration	Oct-26	
2010633	**ISO 105-N01**	☐	Colour fastness to bleaching - hypochlorite	Oct-26	
2010231	**ISO 105-X05**	☐	Colour fastness to organic solvents	Oct-26	
2010235	**ISO 105-X11**	☐	Colour fastness to hot pressing	Oct-26	
2011373	**ISO 105-X18**	☐	Colour Fastness to phenolic yellowing ISO 105-X18	Oct-26	

Further Proficiency Tests for chemical textile testing can be found in the category "consumer goods" or the online catalogue:
e.g. heavy metals, formaldehyde, flame retardants, azo dyes, pesticides, chlorophenols, phthalates, PAH, ...

Assessing - Change in colour / Staining:

2010026	**ISO 105 A02, A03**	☐	Visual evaluation with grey scale	Apr-26	
2010919	**ISO 105 A04, A05**	☐	Instrumental assessment	Apr-26	

Textilien - Bestimmung einer Fasermischung:

2010974	**freely selectable**	☐	Qualitative determination of a fibre blend	May-26	
2010737	**ISO 1833-11**	☐	Fibre blend - Proportion of cotton fibres	May-26	
2010776	**ISO 1833-12**	☐	Fibre blend - Proportion of acrylic fibres	May-26	
2010738	**ISO 1833-4**	☐	Fibre blend - Proportion of protein fibres	May-26	
2010739	**ISO 1833-6**	☐	Fibre blend - Proportion of viscose fibres	May-26	
2010740	**ISO 1833-7**	☐	Fibre blend - Proportion of polyamide fibres	May-26	

Coated / laminated fabrics:

2010990	**ISO 32100**	☐	Coated fabrics – flex resistance (flexometer)	May-26	
2010991	**ISO 1421**	☐	Coated fabrics – tensile properties	May-26	
2011050	**ISO 2411**	☐	Coated fabrics - adhesion	May-26	
2010631	**ISO 4674-1**	☐	Coated fabrics - tear resistance (B)	May-26	
2010150	**ISO 2286-3**	☐	Coated fabrics - Thickness	May-26	
2010086	**ISO 7854-A**	☐	Resistance to damage by flexing (De Mattia)	May-26	
2010088	**ISO 7854-C**	☐	Resistance to damage by flexing (crumple - flex)	May-26	
2010090	**ISO 5470-2**	☐	Abrasion resistance (Martindale)	May-26	

Individual fibres:

2010975	**ISO 1973**	☐	Linear density	May-26	
2010976	**ISO 5079**	☐	Textile fibres – tensile test	May-26	

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Proficiency tests - Leather | PSA

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
			Leather:		Login or register
2010770	**FMVSS 302 and DBL 5307**	☐	Leather - burning rate	Apr-26	
2010028	**ISO 3376**	☐	Leather tensile test	Apr-26	
2010030	**ISO 3377-1**	☐	Leather - tear load - single edge tear	Apr-26	
2010032	**ISO 3377-2**	☐	Leather - tear load - double edge tear	Apr-26	
2010066	**ISO 2589**	☐	Leather - Thickness	Apr-26	
2010713	**ISO 11640**	☐	Colour fastness to cycles of rubbing	Apr-26	
2010709	**ISO 17186**	☐	Surface coating thickness	Apr-26	
2010516	**VDA 270**	☐	Odour test (variant D4 and D5)	Apr-26	
2010645	**ISO 4045**	☐	Leather - pH value and difference figure	Apr-26	
2010643	**ISO 11641**	☐	Leather - colour fastness to perspiration	Apr-26	
2010647	**ISO 11642**	☐	Leather - colour fastness to water	Apr-26	
2011173	**ISO 14268**	☐	Leather - water vapour permeability	Apr-26	
2010695	**PV 3968**	☐	Soiling Behavior	Apr-26	
2011411	**ISO 23910**	☐	Leather - Stitch tear resistance	Apr-26	
2011412	**ISO 15701**	☐	Leather - Colour fastness to migration	Apr-26	
	Proficiency Tests for chemical leather testing can be found in the category "consumer goods" or the online catalogue: **e.g. metal content, preservatives, formaldehyde, chlorophenols, volatile substances, organotin compounds**				
			Protective clothing (general):		
2010094	**ISO 13996**	☐	Puncture resistance	May-26	
2010096	**EN 1149-1**	☐	Surface resistivity	May-26	
2010098	**EN 1149-2**	☐	Vertical resistance	May-26	
2010100	**EN 1149-3**	☐	Charge decay	May-26	
2010102	**ISO 15025**	☐	Limited flame spread	May-26	
2010104	**ISO 9185**	☐	Resistance to molten metal splash	May-26	
2011183	**ISO 17493**	☐	Convective heat resistance (hot air circulating oven)	May-26	
2011229	**ISO 6942 (method B)**	☐	Source of radiant heat - protective effect	May-26	
2011230	**ISO 9151**	☐	Heat transmission on exposure to flame	May-26	
			Protective gloves:		
2010639	**EN 388**	☐	Protective gloves against mechanical risks	May-26	
2011036	**ISO 13997**	☐	Protective gloves - resistance to cutting	May-26	
2011180	**ISO 21420**	☐	Protective gloves - length and finger dexterity	May-26	
			Filtering half masks:		
2010551	**EN 149+A1, EN 13274-7**	☐	Filtering half masks - penetration	May-26	
2010321	**EN 14683**	☐	Test method Medical face masks	May-26	
2010621	**EN 14683 (ISO 22609)**	☐	Medical face masks - Splash Resistance	May-26	
			High visibility clothing:		
2010106	**ISO 20471 (5.1)**	☐	Color measurement (background material)	May-26	
2010108	**ISO 20471 (6.1)**	☐	Retroreflection (retroreflective material)	May-26	
			Microplastics from textile sources:		
2010625	**AATCC TM 212, ISO 4484-1**	☐	Microplastics - mass loss textile	May-26	
2011174	**ISO 4484-2**	☐	Qual. and quant. evaluation of microplastics	May-26	

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Textiles | Leather | PPE
Registration - Proficiency test 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In the tables above each Proficiency test has been allocated to a **fixed test period** respectively to a fixed time planning.

1 **Proficiency Tests with the period April 2026**

Sample shipment: 20.-24. April 2026
Reporting Deadline: 12. June 2026

2 **Proficiency Tests with the period May 2026**

Sample shipment: 26.-29. May 2026
Reporting Deadline: 17. July 2026

3 **Proficiency Tests with the period October 2026**

Sample shipment: 05.-06. October 2026
Reporting Deadline: 13. November 2026

Do not hesitate to contact the DRRR-team:

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Thorsten Helbig
+49(0)831/960 878-77
thorsten.helbig@drrr.de

Additional samples are required for the following tests:

Quantity	**Art.- No./ Proficiency testing type**

If you register for a large number of Profciency tests please contact us for special prices!

☐ An offer with the total costs is needed
☐ A Purchase order from the purchasing department will follow

Registration by mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	company
	company (additional line)
	contact person
	street
	post-code /city
	country (if not Germany)
	e-mail
	VAT-ID-No. (only EU)

date:

Environmental testing and EMC
Proficiency Testing 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Background Information

In cooperation with the consulting company 4TIERS GmbH and the service provider EMC-PT GmbH, we have developed a proficiency testing program in the field of environmental testing and EMC. For the year 2026 the focus will be on the following test areas:

- Vibration / Shock
- Change of temperature, damp heat, cold test
- Electromagnetic compatibility (EMC)
  - Radiated Emission / Radiated Susceptibility
  - Conducted disturbance / Conducted immunity

Specimens specially developed for proficiency tests will be sent from laboratory to laboratory. This means that all laboratories perform the tests on the same test specimen, which is returned to us after the test.

Your benefit



Our proficiency testing program closes a gap for all accredited laboratories in the field of **environmental testing and EMC**. Until now, laboratories had to make use of interlaboratory comparisons or other comparative measurements. Now our professionally organized proficiency testing program can help to fulfill the requirements of accreditation.

By participating in our proficiency testing schemes you have an objective and independent impression of your quality and performance of your routine testing method. Your benefits taking part in DRRR proficiency testing schemes:

- Participation in proficiency testing is required by several facilities
- Participants can compare, assure and improve their own performance and quality
- Recognition of the applied method compared to the other laboratories
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Proficiency testing 2026 - Environmental-testing and EMC

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Proficiency tests - Environmental testing / EMC

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register

In cooperation with: 4TIERS **and** EMC PT

Environmental testing

2011035	**IEC 60068-2-6, -2-64**	☐	Vibration	Mar-26
2011107	**IEC 60068-2-6, -2-64 (round 2)**	☐	Vibration	Apr-26
2011196	**IEC 60068-2-6, -2-64 (round 3)**	☐	Vibration	Apr-26
2011034	**IEC 60068-2-27**	☐	Shock	May-26
2011194	**IEC 60068-2-14**	☐	Change of temperature - Test N	Mar-26
2011332	**IEC 60068-2-14 (round 2)**	☐	Change of temperature - Test N	Apr-26
2011195	**IEC 60068-2-30, -2-38**	☐	Damp heat and temperature-humidity cyclic	Mar-26
2011250	**IEC 60068-2-30, -2-38 (round 2)**	☐	Damp heat and temperature-humidity cyclic	May-26
2011334	**IEC 60068-2-30, -2-38 (round 3)**	☐	Damp heat and temperature-humidity cyclic	Sep-26
2011425	**IEC 60068-2-1**	☐	Cold testing - Test Ae	Feb-26
2011426	**IEC 60068-2-1 (round 2)**	☐	Cold testing - Test Ae	Oct-26

Electromagnetic compatibility (EMC)

Part I - Radiated emissions / disturbance:

2011065	**RTCA DO-160 (sec. 21)**	☐	Emission of Radio Frequency Energy 2 MHz - 6 GHz	Apr-26
2011066	**MIL-STD461 (RE102) - AECTP 500 (NRE02) - VG95373-12 (SA04G)**	☐	Radiated Emissions – Electric Field 10 kHz - 18 GHz	Aug-26
2011072	**CISPR 25**	☐	Radiated emissions assemblies - Anechoic chamber 150 kHz - 6 GHz	Aug-26
2011074	**UN ECE R10 (6.5, 6.6)**	☐	Broadband and narrowband electromagnetic interference (ESA) 30 MHz - 1 GHz (BB and NB)	Aug-26
2010931	**CISPR 16-2-3 - EN 55016-2-3 - EN 55011**	☐	Radiated disturbance 30 MHz - 6 GHz Antenna distance 3 m, (EN 55011 up to 1	Apr-26

Part II - Radiated susceptibility:

2011077	**RTCA DO-160 (sec. 20)**	☐	Radio Frequency Susceptibility (Radiated) 100 MHz - 8 GHz | test level: Cat R	Apr-26
2011078	**MIL-STD461 (RS103) - AECTP 500 (NRS02) - VG95373-13 (SF03G)**	☐	Radiated susceptibility - electric field 10 kHz - 40 GHz | test level: 50 V/m	Aug-26
2011084	**ISO 11452-2**	☐	Electrical disturbances - Absorber-lined shielded enclosure 200 MHz - 6 GHz | Limit value / test level: bis 100 V/m	Aug-26
2011085	**UN ECE R10 (6.8)**	☐	Immunity (ESA) - electromagnetic radiation - free field 20 MHz - 2000 MHz | Limit value / test level: 30 V/m	Aug-26
2010933	**IEC 61000-4-3**	☐	Radiated, radio-frequency, electromagn. field immunity 80 MHz - 6 GHz | Limit value / test level: 10 V/m, 3 V/m	Apr-26

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Environmental testing / EMC

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
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Electromagnetic compatibility (EMC):					
Part III - Conducted emissions / disturbance:					
2011054	**CISPR 16-2-1 - EN 55016-2-1 - EN 55011**	☐	Conducted disturbance 150 kHz - 30 MHz	May-26	
2011240	**CISPR 25**	☐	Conducted disturbances 150 kHz - 108 MHz	Oct-26	
2011241	**RTCA DO-160 (sec. 21)**	☐	Conducted RF emissions 10 kHz - 200 MHz	Oct-26	
2011242	**MIL-STD461 (CE101)**	☐	Conducted emissions, audio frequency currents, power leads 30 Hz to 10 kHz	Oct-26	
2011243	**MIL-STD461 (CE102)**	☐	Conducted emissions, audio frequency currents, power leads 10 kHz to 10 MHz	Oct-26	
2011244	**ISO 7637-2 - UN ECE R10 (6.7)**	☐	Emission of transient conducted disturbances on supply lines slow (ms) and fast (ns und µs) pulses	Oct-26	
Part IV - Conducted susceptibility:					
2011055	**IEC 61000-4-2**	☐	Electrostatic discharge immunity	May-26	
2011057	**IEC 61000-4-4**	☐	Electrical fast transient immunity	May-26	
2011058	**IEC 61000-4-5**	☐	Surge immunity	May-26	
2011059	**IEC 61000-4-6**	☐	Immunity - conducted disturbances (radio-frequency fields)	May-26	
2011060	**IEC 61000-4-8**	☐	Power frequency magnetic field immunity	May-26	
2011061	**IEC 61000-4-9**	☐	Impulse magnetic field immunity	May-26	
2011063	**IEC 61000-4-11**	☐	Voltage dips, short interruptions, voltage variations immunity	May-26	
2011245	**ISO 11452-4 - UN ECE R10 (6.8)**	☐	Immunity (ESA) - bulk current injection (BCI) 10 kHz - 400 MHz	Oct-26	
2011246	**RTCA DO-160 (sec. 20)**	☐	Conducted Susceptibility (BCI) 10 kHz - 400 MHz	Oct-26	
2011247	**MIL-STD461 (CS114)**	☐	Conducted susceptibility, bulk cable injection (BCI) 4 kHz - 200 MHz	Oct-26	
2011248	**ISO 7637-2 - UN ECE R10 (6.9)**	☐	Transient disturbances conducted along supply lines Pulse 1, 2a, 2b, 3a, 3b und 4	Oct-26	
2011249	**ISO 10605 (8.3)**	☐	Electrostatic discharge (powered-up direct discharges)	May-26	

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Environmental testing and EMC
Registration - Proficiency test 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	company
	company (additional line)
	contact person
	street
	post-code /city
	country (if not Germany)
	e-mail
	VAT-ID-No. (only EU)

date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien
Reinhartser Straße 31 | 87437 Kempten
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Building materials
Proficiency Testing 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Accreditation ISO/IEC 17043 (A2LA)

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Convenient proficiency testing participation with ODIN easy, safe and clearly
- Direct booking of proficiency testing schemes in our online catalogue
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates

You can also use the following pages as a regsitration form or dowmload them on our homepage:

Proficiency testing 2026 - Material testing - Building materials

For questions and suggestions do not hesitate to contact us!

DRRR GmbH
Reinhartser Straße 31, 87437 Kempten, Germany
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Proficiency tests - Building materials

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
			Hardened concrete:		Login or register
2010288	**EN 12390-7 und -3**	☐	Hardened concrete - Density and Compressive strength	Dec-26	
2010589	**EN 12390-6**	☐	Tensile splitting strength	Dec-26	
2010591	**EN 12390-8**	☐	Depth of penetration of water under pressure	Dec-26	
2010205	**EN 14629**	☐	Chloride content in hardened concrete	Nov-26	
			Fresh concrete: [sample preparation by the participant]		
2010593	**EN 12350-4,-5,-6,-7**	☐	Fresh concrete	Dec-26	
			Cement:		
2010284	**EN 196-1**	☐	Compressive and flexural strength	Nov-26	
2010266	**EN 196-2**	☐	Chloride content of cement	Nov-26	
2010268	**EN 196-2**	☐	Loss of ignition of cement	Nov-26	
2010569	**EN 196-2**	☐	Total sulphate content	Nov-26	
2011236	**EN 196-2**	☐	Residue insoluble (hydrochloric acid - sodium carbonate)	Nov-26	
2010595	**EN 196-3**	☐	Setting times and soundness	Nov-26	
2010597	**EN 196-6**	☐	Fineness	Nov-26	
2011184	**EN 196-10**	☐	Cement - water-soluble chromium (VI)	Nov-26	
			Mortar for masonry: [sample preparation by the participant]		
2010601	**EN 1015-3,-6,-7**	☐	Fresh mortar	Dec-26	
2010276	**EN 1015-10**	☐	Dry bulk density of hardened mortar	Dec-26	
2010298	**EN 1015-11**	☐	Flexural and compressive strength	Dec-26	
2010300	**EN 1015-12**	☐	Adhesive strength of hardened mortars	Dec-26	
			Masonry units:		
2010603	**EN 772-1**	☐	Compressive strength	Nov-26	
			Mineral building materials:		
2010571	**ISO 12570**	☐	Moisture content	Nov-26	
2010573	**ISO 12571**	☐	Hygroscopic sorption properties	Nov-26	
			Refractory products:		
2011416	**ISO 5017, ISO 10059-1**	☐	Refractory products - Bulk density and Cold compressive strength	Nov-26	
2011417	**ISO 5014, ASTM C133**	☐	Refractory products - Modulus of rupture	Nov-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Building materials

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Aggregates:					
2010611	**EN 933-1**	☐	Particle size distribution - Sieving method	Dec-26	
2010613	**EN 933-4**	☐	Particle shape - Shape index	Dec-26	
2011185	**EN 933-9**	☐	Fines - Methylene blue test	Nov-26	
2011186	**EN 933-10**	☐	Fines - Grading of filler aggregates	Nov-26	
2010575	**EN 1097-3**	☐	Loose bulk density and voids	Nov-26	
2010579	**EN 1097-6**	☐	Particle density and water absorption	Nov-26	
2010581	**EN 1744-1**	☐	Water-soluble chloride salts - Volhard method	Nov-26	
2010583	**EN 1744-1**	☐	Total sulfur content, Acid soluble sulfates	Nov-26	
2011234	**EN 1367-1**	☐	Resistance to freezing and thawing	Nov-26	
2011235	**EN 933-7**	☐	Shell content	Nov-26	
Bituminous mixtures & Bitumen:					
2011191	**EN 12697-1**	☐	Bituminous mixtures - Soluble binder content	Dec-26	
2011192	**EN 1426, EN 1427**	☐	Bitumen - needle penetration and softening point	Dec-26	
2011409	**EN 15326, ISO 2592**	☐	Bitumen - Density and flash point	Dec-26	
2011410	**EN 12593**	☐	Bitumen - Fraass breaking point	Dec-26	
2011197	**EN 12697-6,-12**	☐	Bituminous - Bulk density and compressive strength	Dec-26	
Thermal insulating material:					
2010587	**ISO 29470 - ISO 29466**	☐	Thermal insulating products - Apparent density and Thickness	Dec-26	
2010607	**EN 1607**	☐	Tensile strength perpendicular to faces	Dec-26	
2011040	**EN 12089**	☐	Bending behaviour	Dec-26	
2010609	**ISO 29469**	☐	Compression behaviour	Dec-26	
2010286	**EN 29052-1**	☐	Dynamic stiffness	Dec-26	
2010280	**EN 12667**	☐	Thermal resistance	Dec-26	
2011188	**ISO 16535**	☐	Long term water absorption by immersion (2A)	Dec-26	
2011189	**EN 1604**	☐	Thermal insulating products - dimensional stability	Dec-26	
2011190	**EN 12086**	☐	Thermal insulating products - water vapour transmission	Dec-26	
2011231	**ISO 16546**	☐	Freeze-thaw resistance	Dec-26	
2011232	**EN 12430**	☐	Behaviour under point load	Dec-26	
2011233	**EN 1605**	☐	Deformation under compressive load and temperature conditions	Dec-26	
2011374	**ISO 29767**	☐	Short-term water absorption by immersion (A)	Dec-26	
2011375	**ISO 16536**	☐	Long-term water absorption by diffusion	Dec-26	
Other building material:					
2010282	**ISO 15148**	☐	Water absorption coefficient by partial immersion	Nov-26	
2011418	**ISO 11925-2**	☐	Burning behaviour - Single-flame source tes	Nov-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Building materials
Registration - Proficiency test 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In the tables above each Proficiency test has been allocated to a **fixed test period** respectively to a fixed time planning.

1 **Proficiency Tests with the period November 2026**

Sample shipment: 16.-17. November 2026
Reporting Deadline: individually depending on the proficiency test

2 **Proficiency Tests with the period December 2026**

Sample shipment: 7.-8. December 2026
Reporting Deadline: individually depending on the proficiency test

Do not hesitate to contact the DRRR-team:

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thorsten.helbig@drrr.de

Additional samples are required for the following tests:

Quantity	**Art.- No./ Proficiency testing type**

If you register for a large number of Profciency tests please contact us for special prices!

☐ An offer with the total costs is needed
☐ A Purchase order from the purchasing department will follow

Registration by mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	company
	company (additional line)
	contact person
	street
	post-code /city
	country (if not Germany)
	e-mail
	VAT-ID-No. (only EU)

date:

Test methods - Volkswagen AG
Registration for 2026

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type	Period	To view pricing information please visit our online Portal:
Thermoplastics:					
2010659	TL 1011	☐	Flammability	Mar-26	Login or register
2010667	PV 1303	☐	Xenon Arc Light Aging	Mar-26	
2010130	PV 3930	☐	Weathering (Humid, Hot) - Florida test	Apr-26	
2010822	PV 3952	☐	Scratch resistance	Mar-26	
2010539	PV 3964	☐	Cream resistance	Apr-26	
2010693	PV 3966	☐	Stress Whitening Properties (Ball Drop Test)	Apr-26	
2010699	PV 3974	☐	Mar Resistance of Surfaces	Apr-26	
2010981	PV 3987	☐	Micro scratch resistance high gloss	Mar-26	
2010717	PV 3989	☐	Ball Drop Test	Apr-26	
2010719	PV 3991	☐	Skin abrasion test	Apr-26	
2010721	PV 3.3.3	☐	Scratch Resistance of Clear Coats	May-26	
2011106	VW 50195	☐	Automotive Paint Finish - Colorimetric Evaluation	May-26	
2010661	PV 1058	☐	Micro-crack pattern	May-26	
2010663	PV 1063	☐	Micropore Density	May-26	
2010665	PV 1065	☐	Potential Differences and Layer Thicknesses of Nickel	Sep-26	
Metals:					
2011043	PV 1210	☐	Corrosion Test	May-26	
2011330	PV 1209	☐	Environmental Corrosion Cycle	Oct-26	
2011331	PV 7201	☐	Filiformkorrosion	Oct-26	
Rubber & TPE:					
2010671	PV 3305	☐	Ozone Resistance - Permanent Deformation	May-26	
2010673	PV 3307	☐	Plastic and Elastic Deformability	May-26	
2010675	PV 3330	☐	O-Rings - Compression Set	May-26	
2010697	PV 3973	☐	O-Rings - Tensile test	May-26	
2010677	PV 3366	☐	Seals - Wear Characteristics of Flocking	May-26	
Textilies - Leather - foams:					
2010669	PV 2034	☐	Floating Roller Peel Test	Mar-26	
2010679	PV 3906	☐	Abrasion Behavior	May-26	
2010681	PV 3908	☐	Wear Resistance	May-26	
2010683	PV 3909	☐	Static and Permanent Elongation	May-26	
2010689	PV 3955	☐	Trim Cover Material - Seam Slippage Resistance	May-26	
2010691	PV 3961	☐	Trim Cover Material - Hook Fastener Test	May-26	
2010695	PV 3968	☐	Leather - Soiling Behavior	Apr-26	

☐ An offer with the total costs is needed

☐ A Purchase order from the purchasing department will follow

Registration by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s)
and the order for the additional sample sets.

	company
	company (additional line)
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

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Proficiency tests - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Other building materials					Login or register
2010682	**Building materials - enumeration of moulds (surface sample)**	☐	moulds [cfu/sample]	**risk group 1**	Apr-26	
2010684	**Building materials - detection of moulds (material sample)**	☐	moulds qualitative	**risk group 1**	Apr-26	
	Plastics - surfaces					
2010623	**Antibacterial activity plastics - ISO 22196**	☐	antibacterial activity S.aureus [log10 reduction]		May-26	
2011347	**Plastics - action of microorganisms (ISO 846)**	☐	visual evaluation change of mass [mg]		Nov-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

[*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our online portal (ODIN).

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Medical devices

chemial-physical

immunological, molecular biological & microbiological

product catalogue 2026



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DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 1100 PT's per year

Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

Accredited PT-provider

Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

©DRRR

Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

National and international committees and working groups

Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

Matrix reference

Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

Market-leading statistical evaluation

Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

©DRRR

Individual Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

Benefit from our high quality standards in all important fields of testing.

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

Get in touch with us.

We look forward to working with you!

©DRRR

Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Non-active medical devices					Login or register
2010381	**Medical devices - qual. characterization (ISO 10993-18)**	☐	qual. characterization of medical devices (all qualitative)		Jul-26	
2010383	**Medical devices - quan. characterization (ISO 10993-18) - XRF**	☐	determination of the elements using XRF [%] (all quantitative)		Jul-26	
2010385	**Medical devices - quan. characterization (ISO 10993-18) - Formaldehyde**	☐	formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)		Jul-26	
2010387	**Medical devices - degradation products from ceramics (ISO 10993-14) 1**	☐	mass of the filter residue [mg], mass of the dissolved material [mg] (all quantitative)		May-26	
2010389	**Medical devices - degradation products from ceramics (ISO 10993-14) 2**	☐	quantitative determination of the elements in the test solution [mg/kg] (all quantitative)		May-26	
2010391	**Medical devices - loss of polymer mass (ISO 10993-13) 1**	☐	mass loss of the sample in the test solution water [mg] (all quantitative)		Aug-26	
2010393	**Medical devices - loss of polymer mass (ISO 10993-13) 2**	☐	mass loss of the sample in the test solution water [mg] (all quantitative)		Aug-26	
2011168	**Medical devices - gravim. determination extractables**	☐	extractables (n-hexane) [mg/dm²], extractables (iso-propanol) [mg/dm²] (all quantitative)		Jul-26	
2011169	**Medical devices - extractables & leachables**	☐	identification of various extractables & leachables (qual.), quantification of the identified extractables & leachables [µg/ml] (quant.)		Aug-26	
2011159	**Medical devices - extraction of elements (ISO 10993-12)**	☐	calcium (Ca), phosphorus (P), magnesium (Mg), fluorine (F), manganese (Mn), chromium (Cr), Iodine (I), selenium (Se) (all quantitative)		Sep-26	
	Non-active medical devices - NEW!					
2011368	**Medical devices - VOC**	☐	VVOC [mg/kg], VOC [mg/kg], SVOC [mg/kg] (all quantitative)		Aug-26	
	Sterility and contamination testing					
2010375	**Medical devices - ethylene oxide residues (ISO 10993-7) 1**	☐	ethylene oxide (CAS 75-21-8) [mg/kg], ethylene chlorohydrin (CAS 107-07-3) [mg/kg] (all quantitative)		Sep-26	
2010377	**Medical devices - ethylene oxide residues (ISO 10993-7) 2**	☐	ethylene oxide (CAS 75-21-8) [mg/kg], ethylene chlorohydrin (CAS 107-07-3) [mg/kg] (all quantitative)		Sep-26	
2011276	**Medical devices - TOC und THC**	☐	total organic carbon (TOC) [µg], total hydrocarbons (THC) [µg] (all quantitative)		Nov-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

[*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our online portal (ODIN).

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Sterility and contamination testing						
2010696	**Testing of sterilization of medical devices 1 (ISO 11737-1)**	☐	aerobic total count [cfu/product] (all quantitative)	**risk group 1**	Jun-26	
2010964	**Testing of sterilization of medical devices 2 (ISO 11737-1)**	☐	yeasts [cfu/product] (all quantitative)	**risk group 1**	Jun-26	
2010966	**Testing of sterilization of medical devices 3 (ISO 11737-1)**	☐	moulds [cfu/product] (all quantitative)	**risk group 1**	Jun-26	
2010968	**Testing of sterilization of medical devices 4 (ISO 11737-1)**	☐	aerobic spores [cfu/product] (all quantitative)	**risk group 1**	Jun-26	
2011171	**Testing of sterilization of medical devices 5 (ISO 11737-1)**	☐	anaerobic spores [cfu/product] (all quantitative)	**risk group 2**	Jun-26	
2010657	**Identification of microorganisms using MALDI-ToF**	☐	identification of microorganism MALDI-ToF (all qualitative)	**risk group 1**	Nov-26	
2010567	**Microbiological analysis of endoscopes**	☐	aerobic total count [cfu/endoscope channel] (quant.), identification of germs (qual.)	**risk group 1**	Oct-26	
2010961	**Medical devices - protein residues**	☐	protein [µg] (all quantitative)	**Suitable laboratory equipment is required for participation in the proficiency testing schemes.**	Sep-26	
2011291	**Medical devices - detection of endotoxins (Ph. Eur. 2.6.14)**	☐	endotoxins [positive or negative] (all qualitative)		Sep-26	
2011292	**Sterility testing medical devices (Ph. Eur. 2.6.1, ISO 11737-2)**	☐	aerobic microbial load [positive or negative] (all qualitative)	**risk group 1**	Oct-26	
In vitro procedure						
2010281	**Tests for in vitro cytotoxicity (ISO 10993-5)**	☐	in vitro cytotoxicity qualitative (all qualitative)		Nov-26	
2011286	**Medical devices - in vitro skin irritation (ISO 10993-23)**	☐	in-vitro skin irritation - polar [-], in-vitro skin irritation - nonpolar [-] (all qualitative)		Sep-26	
2011287	**Medical devices - pyrogenic monocyte activation test (Ph. EP 2.6.30)**	☐	monocyte activation, IL-6 (all qualitative)		Nov-26	
2011288	**Medical devices - in vitro skin sensitisation (OECD 442D,KeratinoSens)**	☐	skin sensitisation (all qualitative)		Dec-26	
2011289	**Medical devices - in vitro skin sensitisation (OECD 442E, h-CLAT)**	☐	skin sensitisation, CD86, CD54 (all qualitative)		Dec-26	
2011290	**Medical devices - in vitro eye irritation (OECD492b)**	☐	in vitro eye irritation (all qualitative)		Sep-26	
Water in medical care						
2011293	**Microbiological analysis of water from dental units 1**	☐	aerobic total count 36°C [cfu/ml] (all quantitative)	**risk group 1**	Jul-26	
2011294	**Microbiological analysis of water from dental units 2**	☐	Ps.aeruginosa [cfu/100ml] (all quantitative)	**risk group 2**	Jul-26	
2011295	**Microbiological analysis of water from dental units 3**	☐	Legionella spp. plating (original sample) [cfu/100ml], Legionella spp. membrane filtration (with acid treatment) [cfu/100ml] (all quantitative)		Sep-26	
2011296	**Microbiological analysis of dialysis water 1**	☐	Aerobic total count 36 °C (plate technique) [cfu/ml], Aerobic total count 20 °C (plate technique) [cfu/ml], Aerobic total count 36 °C (membrane filtration) [cfu/10 ml], Aerobic total count 20 °C /membrane filtration) [cfu/10 ml] (all quantitative)	**risk group 1**	Jul-26	
2011297	**Microbiological analysis of dialysis water 2**	☐	Ps. aeruginosa (all quantitative)	**risk group 2**	Jul-26	
2011298	**Microbiological analysis of dialysis water 3**	☐	E.coli, Coliforms (all quantitative)	**risk group 1**	Apr-26	
Surgical drapes and gowns - NEW!						
2011352	**Surgical drapes & gowns - microbial load (EN 13795-1)**	☐	microbial load [cfu/100 cm²] (all quantitative)	**risk group 1**	Jul-26	
2011353	**Surgical drapes & gowns - microbial penetration dry (EN 13795-1)**	☐	microbial penetration dry [cfu] (all quantitative)		Jul-26	
2011354	**Surgical drapes & gowns - microbial penetration, damp (EN 13795-1)**	☐	microbial penetration wet [IB] (all quantitative)		Jul-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

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registration form proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

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For proficiency testing schemes labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancelation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

- ☐ This registration is permanent-registration and valid until my cancelation
- ☐ An offer with the total costs is needed
- ☐ A Purchase order from the purchasing department will follow

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	DRRR-customer number
	company
	additional line
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien GmbH
Reinhartser Straße 31 | 87437 Kempten
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99
www.DRRR.de | info@DRRR.de

reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

Description reference material

Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivate reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

Profit with our high quality standards for your lab work

Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.

Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

Availability and order request of reference material

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ODIN - proficiency testing online

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

• Fast and easy online registration / online announcement in our online catalogue

• Direct management and booking of the proficiency testing

• Overview about the registered proficiency testing schemes

• Fast and secure submission of your results via ODIN

• Online access to individual customers reports and certificates

• Supervisor rights available to overview all PTs of a multi-site company

• Saving of costs through booking and submission of your results via ODIN

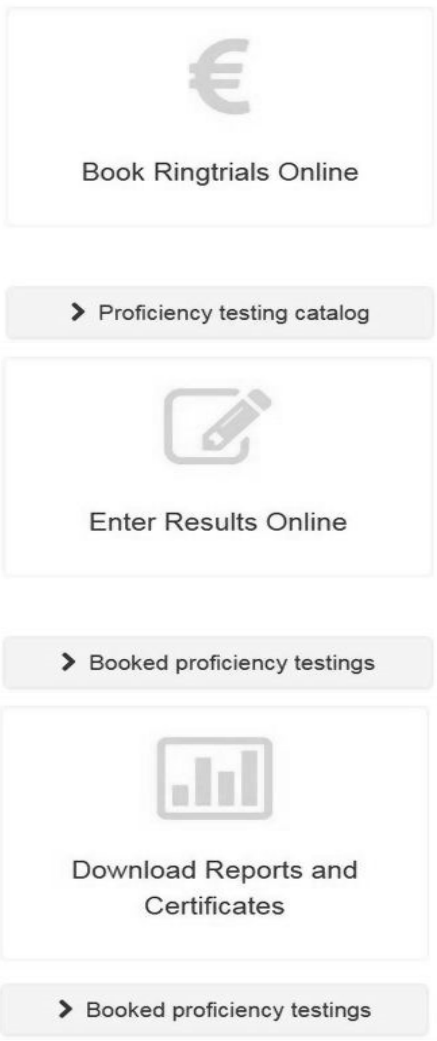
Secure payment with IRIS (Internet Remuneration Information Service).

• Easy and safe payment by credit card

• Overview about all invoices

• Fast and secure online access

You can also pay your invoice via banktransfer or bank check.



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Proficiency testing organisation

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

• A precise planning and organisation of each proficiency testing round

• 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

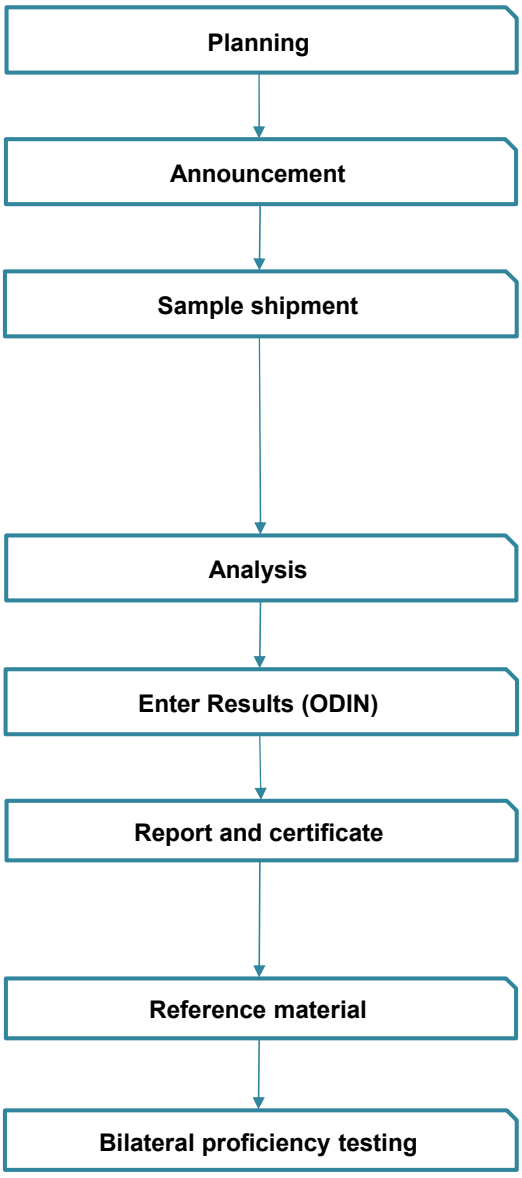
• After receiving the samples you will have a period of approximately 4 weeks for analysing.

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

• After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



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Benefits of proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Why take part in proficiency testing?

• Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers

• Participants can compare, assure and improve their own performance and quality against other laboratories worldwide

• Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories

• Saving on the costs of testing

• Unquestionable lab performance towards customers, authorities and certification authorities

• Saving on the costs of lab development and maintenance

• Saving on the costs of lab development and maintenance

• Saving on production costs by avoiding waste of raw material

Your benefits in DRRR proficiency testing schemes

• Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories

• Saving the costs, because you have the opportunity to analzye more samples and more parameters in one proficiency testing

• External demonstration of your performance with the results of the proficiency testing

• Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence

• Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



Image source:
iStock.com/3dts

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Statistical methods

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogeneous and stable sample material

Laboratory performance:

by calculation of the following paramters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics
(Hampel estimator, Q-method)
- Robust statistics
(Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the chi²-fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



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z'-score > 2: What to do?

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.
These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.
You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.
(* normally not longer than 1 - 2 weeks)
The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

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quality management / quality assurance

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager).
Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.

Please do not hesitate to contact us.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

©DRRR

seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarties for the IR calibartion of selected food will be discussed. The specific peculiarties of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical excericise calibration data sets will be testes for suitability and critical data sets will be identifed.

Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test, qui²-adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.

Inhouse-Training

We consider lectures, training and seminars as in important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

For special requirements we also offer customised training programmes.

For questions about contents and conditions do no hesitate to contact us.

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Sales terms and delivery conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.
Terms of payment: 8 days net, without deduction
Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:
Raiffeisenbank in Allgäuer Land / bank code 733 692 64
Account 102350 / IBAN DE 94733692640000102350
BIC code: GENO DEF1DTA
Sales tax ID no. DE254613132
tax number 127/124/32207

Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked “frozen” are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

Terms of delivery (risk group 1, 2 and 3**)

Proficiency tests or reference materials marked with “Risk Group 1” are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with “risk group 2, or risk group 3**”, we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.

§ 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.
Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.
If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations. The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

§ 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.
The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.
The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.
A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

Cancelation notification period:	Permanent registration (D)
	single (one-time) registration (E)
up to 3 months before the proficiency testing	no costs (D)
	50,00 € (E)
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price (E)
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

§ 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.
Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).
The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.
No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order.
Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.
The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.
The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.
The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.
If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.
The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.
The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.
All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.
In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.
All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.
The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.
For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

§ 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.
Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.
All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded. Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.
The goods remain the property of DRRR until they have been paid for in full by the customer.
The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.
Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.
The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction). Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.
Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

§ 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.
The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.
The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.
If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

§ 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.
The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.
The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

§ 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:
The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.
Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.
Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.
The warranty is limited to the stated expiration date of the reference materials.
This applies to: ieLab, TGZ AQS Baden-Württemberg

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Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Environmental analytics

chemical-physical

immunological, molecular biological & microbiological

product catalogue 2026



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DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 1100 PT's per year

Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

Accredited PT-provider

Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

©DRRR

Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

National and international committees and working groups

Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

Matrix reference

Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

Evaluation

Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

Market-leading statistical evaluation

©DRRR

Individual Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

Benefit from our high quality standards in all important fields of testing.

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

Get in touch with us.

We look forward to working with you!

©DRRR

Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Soil				Login or register
2011277	**Elution of solids - percolation method (DIN 19528)**	☐	chromium (1st percolation) [µg/l], molybdenum (1st percolation) [µg/l], vanadium (1st percolation) [µg/l], sulphate (1st percolation) [mg/l], PAH15 (1st percolation) [µg/l], chromium (2:1-column percolation) [µg/l], molybdenum (2:1-column percolation) [µg/l], vanadium (2:1-column percolation) [µg/l], sulphate (2:1-column percolation) [mg/l], PAH15 (2:1-column percolation) [µg/l] (all quantitative)	Oct-26	
2011278	**Hydrocarbons in soil (ISO 16703)**	☐	total petroleum hydrocarbons (TPH) from C_{10} to C_{40} [mg/kg] (all quantitative)	Dec-26	
2011127	**PFAS in soil**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg dry matter], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg dry matter], total perfluorononanoic acid (CAS 375-95-1) [µg/kg dry matter], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg dry matter], dry matter [g/100 g] (all quantitative)	Jun-26	
	Drinking water - NEW!				
2011379	**Drinking water - pH, conductivity (ISO 10523, ISO 7888)**	☐	pH value [-], electrical conductivity [mS/m] (all quantitative)	Dec-26	
2011380	**Drinking water - 1,2,4-triazole**	☐	1,2,4-triazole (CAS 288-88-0) [µg/l] (all quantitative)	Nov-26	
2011381	**Drinking water - contaminants**	☐	bisphenol A (CAS 80-05-7) [µg/l], epichlorhydrin (CAS 106-89-8) [µg/l], acrylamide (CAS 79-06-1) [µg/l] (all quantitative)	Nov-26	
	Drinking water				
2011123	**PFAS in drinking water**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/l], total perfluorooctanoic acid (CAS 335-67-1) [ng/l], total perfluorononanoic acid (CAS 375-95-1) [ng/l], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/l], total perfluorobutanoic acid (CAS 375-22-4) [ng/l], total perfluoropentanoic acid (CAS 2706-90-3) [ng/l], total perfluorohexanoic acid (CAS 307-24-4) [ng/l], total perfluoroheptanoic acid (CAS 375-85-9) [ng/l], total perfluorodecanoic acid (CAS 335-76-2) [ng/l], total perfluorundecanoic acid (CAS 2058-94-8) [ng/l], total perfluorododecanoic acid (CAS 307-55-1) [ng/l], total perfluorotridecanoic acid (CAS 72629-94-8) [ng/l], total perfluorobutane sulfonic acid (CAS 375-73-5) [ng/l], total perfluoropentane sulfonic acid (CAS 2706-91-4) [ng/l], total perfluoroheptane sulfonic acid (CAS 375-92-8) [ng/l], total perfluorononane sulfonic acid (CAS 68259-12-1) [ng/l], total perfluorodecane sulfonic acid (CAS 335-77-3) [ng/l], total perfluoroundecane sulfonic acid (CAS 749786-16-1) [ng/l], total perfluorododecane sulfonic acid (CAS 79780-39-5) [ng/l], total perfluorotridecane sulfonic acid (CAS 791563-89-8) [ng/l] (all quantitative)	Sep-26	
2010395	**Microplastic – particle number**	☐	particle number [particle number / g] (all quantitative)	Dec-26	
	Marine water - NEW!				
2011382	**Marine water - metals**	☐	arsenic (As) [µg/l], chromium (Cr) [µg/l], copper (Cu) [µg/l], mercury (Hg) [µg/l], nickel (Ni) [µg/l], zinc (Zn) [µg/l], lead (Pb) [µg/l], cadmium (Cd) [µg/l] (all quantitative)	Dec-26	
2011383	**Marine water - chlorite, chlorate**	☐	chlorite [µg/l], chlorate [µg/l] (all quantitative)	Dec-26	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

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Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
	Surface- and waste water (bath water) - NEW!				Login or register
2011369	**Synthetic waste water - VOC**	☐	benzene (CAS 71-43-2) [µg/l], o-cresol (CAS 95-48-7) [µg/l], m-cresol (CAS 108-39-4) [µg/l], p-cresol (CAS 106-44-5) [µg/l], toluene (CAS 108-88-3) [µg/l], xylene (CAS 1330-20-7) [µg/l] (all quantitative)	Jun-26	
2011370	**Synthetic waste water - PAH**	☐	acenaphthene (CAS 83-32-9) [µg/l], acenaphthylene (CAS 208-96-8) [µg/l], anthracene (CAS 120-12-7) [µg/l], benzo[a]anthracene (CAS 56-55-3) [µg/l], benzo[a]pyrene (CAS 50-32-8) [µg/l], benzo[b]fluoranthene (CAS 205-99-2) [µg/l], benzo[e]pyrene (CAS 192-97-2) [µg/l], benzo[ghi]perylene (CAS 191-24-2) [µg/l], benzo[j]fluoranthene (CAS 205-82-3) [µg/l], benzo[k]fluoranthene (CAS 207-08-9) [µg/l], chrysene (CAS 218-01-9) [µg/l], dibenzo[a,h]anthracene (CAS 53-70-3) [µg/l], fluoranthene (CAS 206-44-0) [µg/l], fluorene (CAS 86-73-7) [µg/l], indeno[1,2,3-cd]pyrene (CAS 193-39-5) [µg/l], naphthalene (CAS 91-20-3) [µg/l], phenanthrene (CAS 85-01-8) [µg/l], pyrene (CAS 129-00-0) [µg/l] (all quantitative)	Jun-26	
2011371	**Synthetic waste water - PCB**	☐	PCB 28 (CAS 7012-37-5) [µg/l], PCB 52 (CAS 35693-99-3) [µg/l], PCB 101 (CAS 37680-73-2) [µg/l], PCB 118 (CAS 31508-00-6) [µg/l], PCB 138 (CAS 35065-28-2) [µg/l], PCB 153 (CAS 35065-27-1) [µg/l], PCB 180 (CAS 35065-29-3) [µg/l] (all quantitative)	Jun-26	
2011376	**Synthetic waste water - aromatic amines from azo dyes**	☐	o-toluidine (CAS 95-53-4) [µg/l], o-anisidine (CAS 90-04-0) [µg/l], o-dianisidine (CAS 119-90-4) [µg/l], 5-nitro-o-toluidine (CAS 99-55-8) [µg/l], o-aminoazotoluene (CAS 97-56-3) [µg/l], 4-chloroaniline (CAS 106-47-8) [µg/l], 3,3'-dichlorobenzidine (CAS 91-94-1) [µg/l], benzidine (CAS 92-87-5) [µg/l], o-tolidine (CAS 119-93-7) [µg/l], 2,4-diaminotoluene (CAS 95-80-7) [µg/l], 2,4-xylidine (CAS 95-68-1) [µg/l], 2,6-xylidine (CAS 87-62-7) [µg/l] (all quantitative)	Jun-26	
2011377	**Synthetic waste water - organotin compounds**	☐	n-butyltintrichloride (as cation) (CAS 1118-46-3) [µg/l], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/l], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/l], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/l], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/l], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/l], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/l], tetra-n-butyltin (CAS 1461-25-2) [µg/l] (all quantitative)	Jul-26	
2011378	**Synthetic waste water - phthalates**	☐	DMEP (CAS 117-82-8) [µg/l], BBP (CAS 85-68-7) [µg/l], DCHP (CAS 84-61-7) [µg/l], DIDP (CAS 26761-40-0) [µg/l], DIOP (CAS 27554-26-3) [µg/l], DIBP (CAS 84-69-5) [µg/l], DINP (CAS 28553-12-0) [µg/l], DHEXP (CAS 84-75-3) [µg/l], DNOP (CAS 117-84-0) [µg/l], DPP (CAS 131-18-0) [µg/l], DPRP (CAS 131-16-8) [µg/l], DEHP (CAS 117-81-7) [µg/l], DBP (CAS 84-74-2) [µg/l], DEP (CAS 84-66-2) [µg/l], DIPP (CAS 605-50-5) [µg/l], DNP (CAS 84-76-4) [µg/l] (all quantitative)	Jul-26	

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Proficiency testing - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
						Login or register
Drinking water - NEW!						
2011346	**Enumeration of somatic coliphages in water (ISO 10705-2)**	☐	somatic coliphages [pfu/100 ml] (all quantitative)	**risk group 1**	Nov-26	
Drinking water						
2010660	**Enumeration of Ps. aeruginosa in drinking water**	☐	Ps.aeruginosa [cfu/100ml] (all quantitative)	**risk group 2**	Jul-26	
2010658	**Enumeration of enterococci in drinking water**	☐	Enterococcus [cfu/100ml] (all quantitative)	**risk group 1**	Apr-26	
2010656	**Aerobic total count drinking water**	☐	aerobic total count 36°C [KbE/ml], aerobic total count 22°C [KbE/ml] (all quantitative)	**risk group 1**	Apr-26	
2010654	**Enumeration of E. coli & coliforms in drinking water**	☐	E.coli [cfu/100ml], Coliforms [cfu/100ml] (all quantitative)	**risk group 1**	Apr-26	
2010114	**Enumeration of Legionella spp. in drinking water**	☐	Legionella spp. (direct plating) [cfu/100ml], Legionella spp. membrane filtration (with acid treatment) [cfu/100ml] (all quantitative)	**risk group 2**	Sep-26	
Surface- and waste water (bath water)						
2010670	**Enumeration of E. coli & coliforms in surface and waste water**	☐	E.coli [cfu/100ml], Coliforms [cfu/100ml] (all quantitative)	**risk group 1**	Apr-26	
2010672	**Enumeration of enterococci in surface and waste water**	☐	Enterococcus [cfu/100ml] (all quantitative)	**risk group 1**	Apr-26	
Recooling water						
2010958	**Enumeration of Legionella spp. in recooling water**	☐	Legionella spp. membrane filtration (after heat treatment) [cfu/100ml], Legionella spp. membrane filtration (with acid treatment) [cfu/100ml], Legionella spp. plating (original sample) [cfu/100ml], Legionella spp. plating (after heat treatment) [cfu/100ml], Legionella spp. plating (with acid treatment) [cfu/100ml] (all quantitative)	**risk group 2**	Sep-26	
2010960	**Enumeration of Ps. aeruginosa in recooling water**	☐	Ps.aeruginosa [cfu/100ml] (all quantitative)	**risk group 2**	Jul-26	
2010962	**Enumeration of aerobic total count in recooling water**	☐	aerobic total count 36°C [cfu/ml], aerobic total count 22°C [cfu/ml] (all quantitative)	**risk group 2**	Jul-26	
Indoor air						
2011301	**Identification moulds in indoor air**	☐	identification of moulds [genus] (all qualitative)	**risk group 1**	Jul-26	
2010954	**Enumeration moulds indoor air**	☐	moulds [cfu/filter] (all quantitative)	**risk group 1**	Jul-26	
Biodegradation						
2011136	**CO2 evolution test (ISO 9439, OECD 301B)**	☐	Final degree of degradation [%], Biodegradation t = 3 h [%], Biodegradation t = 1 d [%], Biodegradation t = 3 d [%], Biodegradation t = 7 d [%], Biodegradation t = 10 d [%], Biodegradation t = 14 d [%], Biodegradation t = 17 d [%], Biodegradation t = 23 d [%], Biodegradation t = 28 d [%] (all quantitative)		Sep-26	
2011137	**Zahn-Wellens, EMPA test (ISO 9888, OECD 302B)**	☐	Final degree of degradation [%], Biodegradation t = 3 h [%], Biodegradation t = 1 d [%], Biodegradation t = 3 d [%], Biodegradation t = 7 d [%], Biodegradation t = 10 d [%], Biodegradation t = 14 d [%], Biodegradation t = 17 d [%], Biodegradation t = 23 d [%], Biodegradation t = 28 d [%] (all quantitative)		Sep-26	
2011138	**Plastic materials - aerobic biodegradability (ISO 14855-2, ASTM D5338-15)**	☐	Biodegradation via CO2 [%] (all quantitative)		Oct-26	
2011139	**Plastic materials - anaerobic biodegradability (ASTM D5511)**	☐	Biodegradation via CO2 and CH4 development [%] (all quantitative)		Oct-26	

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registration form proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

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For proficiency testing schemes labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancelation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

- ☐ This registration is permanent-registration and valid until my cancelation
- ☐ An offer with the total costs is needed
- ☐ A Purchase order from the purchasing department will follow

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	DRRR-customer number
	company
	additional line
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien GmbH
Reinhartser Straße 31 | 87437 Kempten
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99
www.DRRR.de | info@DRRR.de

reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

Description reference material

Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivate reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

Profit with our high quality standards for your lab work

Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.

Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

Availability and order request of reference material

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ODIN - proficiency testing online

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

• Fast and easy online registration / online announcement in our online catalogue

• Direct management and booking of the proficiency testing

• Overview about the registered proficiency testing schemes

• Fast and secure submission of your results via ODIN

• Online access to individual customers reports and certificates

• Supervisor rights available to overview all PTs of a multi-site company

• Saving of costs through booking and submission of your results via ODIN

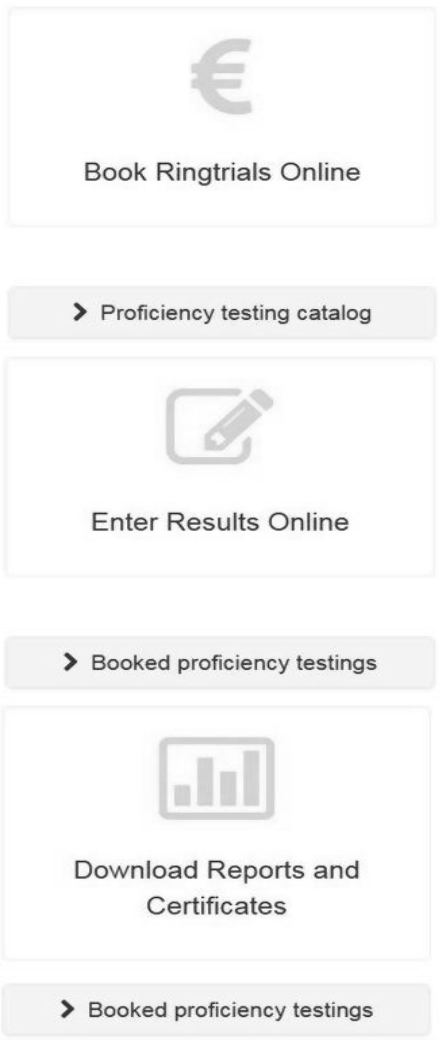
Secure payment with IRIS (Internet Remuneration Information Service).

• Easy and safe payment by credit card

• Overview about all invoices

• Fast and secure online access

You can also pay your invoice via banktransfer or bank check.



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Proficiency testing organisation

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

• A precise planning and organisation of each proficiency testing round

• 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

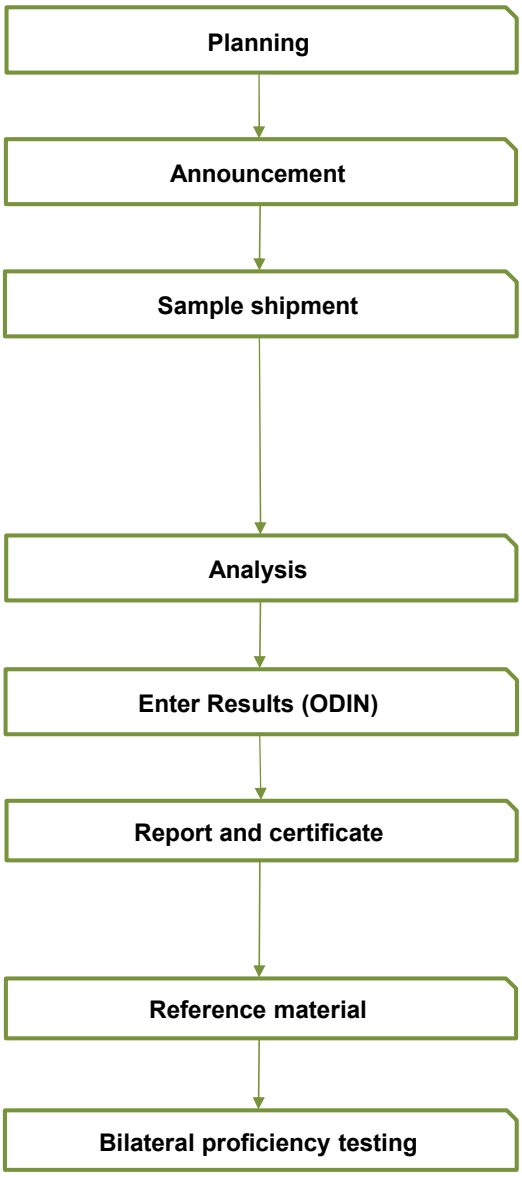
• After receiving the samples you will have a period of approximately 4 weeks for analysing.

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

• After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



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Benefits of proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Why take part in proficiency testing?

• Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers

• Participants can compare, assure and improve their own performance and quality against other laboratories worldwide

• Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories

• Saving on the costs of testing

• Unquestionable lab performance towards customers, authorities and certification authorities

• Saving on the costs of lab development and maintenance

• Saving on the costs of lab development and maintenance

• Saving on production costs by avoiding waste of raw material

Your benefits in DRRR proficiency testing schemes

• Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories

• Saving the costs, because you have the opportunity to analzye more samples and more parameters in one proficiency testing

• External demonstration of your performance with the results of the proficiency testing

• Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence

• Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



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Statistical methods

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogeneous and stable sample material

Laboratory performance:

by calculation of the following paramters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics
(Hampel estimator, Q-method)
- Robust statistics
(Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the chi²-fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



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z'-score > 2: What to do?

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.
These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.
You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.
(* normally not longer than 1 - 2 weeks)
The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

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quality management / quality assurance

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager).
Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.

Please do not hesitate to contact us.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarties for the IR calibartion of selected food will be discussed. The specific peculiarties of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical excericise calibration data sets will be testes for suitability and critical data sets will be identifed.

Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test, qui²-adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

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seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.

Inhouse-Training

We consider lectures, training and seminars as in important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

For special requirements we also offer customised training programmes.

For questions about contents and conditions do no hesitate to contact us.

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Sales terms and delivery conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.
Terms of payment: 8 days net, without deduction
Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:
Raiffeisenbank in Allgäuer Land / bank code 733 692 64
Account 102350 / IBAN DE 94733692640000102350
BIC code: GENO DEF1DTA
Sales tax ID no. DE254613132
tax number 127/124/32207

Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked “frozen” are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

Terms of delivery (risk group 1, 2 and 3**)

Proficiency tests or reference materials marked with “Risk Group 1” are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with “risk group 2, or risk group 3**”, we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.

§ 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.
Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.
If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations. The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

§ 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.
The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.
The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.
A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

Cancelation notification period:	Permanent registration (D)
	single (one-time) registration (E)
up to 3 months before the proficiency testing	no costs (D)
	50,00 € (E)
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price (E)
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

§ 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

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§ 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.
Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).
The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.
No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order.
Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.
The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.
The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.
The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.
If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.
The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.
The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.
All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.
In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.
All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.
The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.
For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

§ 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.
Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.
All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded. Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

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§ 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.
The goods remain the property of DRRR until they have been paid for in full by the customer.
The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.
Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.
The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction). Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.
Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

§ 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.
The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.
The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.
If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

§ 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.
The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.
The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

§ 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:
The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.
Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.
Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.
The warranty is limited to the stated expiration date of the reference materials.
This applies to: ieLab, TGZ AQS Baden-Württemberg

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