Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Consumer goods and Packaging

chemical-physical

organoleptic

immunological, molecular biological & microbiological

product catalogue 2025

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Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

further information

DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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 500 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 17043:2010 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2010. 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).

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

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

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!

Proficiency testing - chemical-physical

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	Period	To view pricing information:
					Login or register
Plastics, plastic film - NEW!					
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-25	
	The determination of various elements is important e.g. for testing compliance with the RoHS Directive. In addition to some regulated elements such as lead, bromine and cadmium, other elements are to be analysed in this proficiency testing. This test can be carried out using e.g. DIN EN 1122; DIN EN 62321-4;VDE 0042-1-4; DIN EN 62321-5;VDE 0042-1-5				
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-25	
	The sample material in the PT is PET granulate. Participants can test the samples for the above contaminants using a method of their choice.				
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-25	
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-25	
2011258	**Plastic - specific migration antioxidant**	☐	Irganox 1076 (CAS 2082-79-3) (ethanol 95%) [mg/kg] (all quantitative)	Oct-25	
2011259	**Plastic - PFAS**	☐	total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/kg], total fluor (TF) [mg/kg] (all quantitative)	Nov-25	
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-25	
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-25	
	A spiked water is to be analysed for leachable organic substances in accordance with EN 15768. A blank sample is provided in the PT. Both the semi-quantitative concentration estimation and the identification of the detected substances are part of the PT.				
Plastics, plastic film - identification					
2011151	**Plastic - screening of SVHC**	☐	identification of various SVHC (qual.), quantification of the identified SVHC [mg/kg] (quant.)	May-25	
2011152	**Plastic - screening of NIAS**	☐	identification of various IAS & NIAS (qual.), quantification of the identified IAS & NIAS [µg/ml] (quant.)	Jul-25	
2010210	**Plastic - identification of granulate**	☐	identification of plastic granules (all qualitative)	Mar-25	
2010312	**Plastic - identification of multi-layer plastic films**	☐	identification of multi-layer films (all qualitative)	Mar-25	
2010115	**Plastic - identification of mono-layer plastic films**	☐	identification of mono-layer films (all qualitative)	Sep-25	
2010963	**Plastic - identification of microplastic**	☐	identification of microplastics (all qualitative)	Dec-25	
2010167	**Plastic - identification of different PA types**	☐	identification of PA types (all qualitative)	Mar-25	

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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-25	
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-25	
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-25	
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-25	
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-25	
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-25	
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)	Jul-25	
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-25	
2010574	**Plastic - overall migration at high temperatures (EN 1186-13)**	☐	overall migration (vegetable oil) [mg/dm²] (all quantitative)	Mar-25	
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-25	

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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:
					Login or register
Plastics, plastic film - specific migration					
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-25	
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-25	
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-25	
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], melamine (CAS 108-78-1) (vegetable oil) [mg/kg] (all quantitative)	Aug-25	
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-25	
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-25	
2010401	**Plastic - specific migration primary aromatic amines 1**	☐	4,4'-methylenedianiline (CAS 101-77-9) [µg/kg], o-toluidine (CAS 95-53-4) [µg/kg], benzidine (CAS 92-87-5) [µg/kg], aniline (CAS 62-53-3) [µg/kg], o-anisidine (CAS 90-04-0) [µg/kg] (all quantitative)	May-25	
2010403	**Plastic - specific migration primary aromatic amines 2**	☐	2-methoxyaniline (CAS 90-04-0) [µg/kg], 4-chloraniline (CAS 106-47-8) [µg/kg], 2-napthylamine (CAS 91-59-8) [µg/kg], 3,3'-dimethylbenzidine (CAS 119-93-7) [µg/kg] (all quantitative)	Dec-25	
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-25	
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-25	
2010925	**Adhesive - migration of primary aromatic amines**	☐	2,6-Diamino-toluol (CAS 823-40-5) [µg/kg], 2,4-Diamino-toluol (CAS 95-80-7) [µg/kg], 4,4'-Methylenedianiline (CAS 101-77-9) [µg/kg], 2,4-Diamino-diphenylmethan (CAS 1208-52-2) [µg/kg], 2,2-Diamino-diphenylmethan (CAS 6582-52-1) [µg/kg] (all quantitative)	Jun-25	
Plastics, plastic film - food simulating matrices					
2010578	**Bisphenol A in food simulants (CEN TS 13130-13)**	☐	bisphenol A (CAS 80-05-7) (ethanol 10%) [mg/kg], bisphenol A (CAS 80-05-7) (dist. water) [mg/kg], bisphenol A (CAS 80-05-7) (acetic acid 3%) [mg/kg] (all quantitative)	Sep-25	
2010222	**Di-ethylene glycol in food simulants (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 (dist. water) [mg/kg], di-ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-25	
2010220	**Ethylene glycol in food simulants (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 (dist. water) [mg/kg], ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-25	
2011101	**Ethylenediamine in food simulants (CEN TS 13130-21)**	☐	ethylene diamine (ethanol 10%) [mg/kg], ethylene diamine (dist. water) [mg/kg], ethylene diamine (acetic acid 3%) [mg/kg] (all quantitative)	Oct-25	
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-25	
2010634	**Acetaldehyde in food simulants**	☐	acetaldehyde (CAS 75-07-0) (water) [µg/l] (all quantitative)	Jul-25	
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-25	

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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 - content determination				Login or register
2011015	**Plastic, silicone - volatile fractions**	☐	Mass fraction of volatile substances [% (m/m)] (all quantitative)	Jun-25	
2010638	**Plastic - 1,3 butadiene content (EN 13130-4)**	☐	1,3-butadiene (CAS 106-99-0) [mg/kg polymer] (all quantitative)	May-25	
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] (all quantitative)	Apr-25	
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-25	
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-25	
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] (all quantitative)	Oct-25	
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-25	
2010584	**Plastic - vinylchloride in synthetic sample (ISO 6401)**	☐	vinyl chloride (CAS 75-01-4) [mg/l] (all quantitative)	Oct-25	
2011153	**Plastic - melamine content**	☐	melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-25	
2010426	**Plastic - VOC, SVOC**	☐	VOC, SVOC (all quantitative)	May-25	

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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:
	Paper and board - NEW!				Login or register
2011263	**Paper, cardboard - melamine**	☐	melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-25	
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-25	
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-25	
	Paper and board				
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-25	
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-25	
2010620	**Migration from paper, board using MPPO (EN 14338)**	☐	overall migration (MPPO) [mg/dm²] (all quantitative)	Nov-25	
	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-25	
2010642	**Paper, cardboard - formaldehyde (EN 1541)**	☐	formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Jun-25	
2010644	**Paper, cardboard - glyoxal**	☐	glyoxal (CAS 107-22-2) [mg/kg] (all quantitative)	May-25	
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-25	
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], DIPB (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-25	
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-25	
2010456	**Paper, cardboard - cadmium, lead in aqueous extract (EN 12498)**	☐	cadmium (Cd) [µg/l], lead (Pb) [µg/l] (all quantitative)	Jul-25	
2011149	**Paper, board - mercury in aqueous extract (EN 12497)**	☐	mercury (Hg) [µg/l] (all quantitative)	Nov-25	
2011099	**Paper, cardboard - aluminium**	☐	aluminium (Al) [mg/l] (all quantitative)	Aug-25	
2010640	**Paper, board - pH value (ISO 6588-1, ISO 6588-2)**	☐	pH value (cold extraction) [-], pH value (hot extraction) [-] (all quantitative)	Nov-25	

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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:
	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-25	
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-25	
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-25	
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-25	
2010460	**Thermal paper - bisphenol S**	☐	bisphenol S (CAS 80-09-1) [mg/kg paper] (all quantitative)	Aug-25	
2011011	**Paper, cardboard - total chlorine and organically bound chlorine (ISO 11480)**	☐	total chlorine [mg/kg], organically bound chlorine [mg/kg] (all quantitative)	Jul-25	
2010450	**Paper, cardboard - DIPN (EN 14719)**	☐	DIPN [mg/kg] (all quantitative)	May-25	
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-25	
2011023	**Pulps - Kappa number (ISO 302)**	☐	Kappa number (all quantitative)	Jun-25	
	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-25	
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-25	
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-25	

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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:
	Kitchen utensils and dishes - NEW!				Login or register
2011274	**Metals and alloys - migration 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] (all quantitative)	Jun-25	
	In this PT, the migration of selected metals is to be tested by filling with simulant artificial tap water (acc. to EN 16889:2016-10) and 0.5 % citric acid (based on the EDQM Guide 2013).				
2011275	**Metals and alloys - migration of metals part 2**	☐	envelope volume [cm³], 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] (all quantitative)	Nov-25	
	In this PT, the migration of selected metals is to be tested by filling with simulant artificial tap water (acc. to EN 16889:2016-10) and 0.5 % citric acid (based on the EDQM Guide 2013).				
	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-25	
2010411	**Ceramics - release of lead and cadmium (EN 1388-1)**	☐	lead (Pb) [mg/l], cadmium (Cd) [mg/l] (all quantitative)	Oct-25	
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-25	
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) [%] (all quantitative)	Jul-25	
	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-25	
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-25	
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-25	
2011132	**Rubber - overall migration (substitute test, one-sided contact)**	☐	overall migration (ethanol 95%) [mg/dm²], overall migration (ISO octane) [mg/dm²] (all quantitative)	Dec-25	
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-25	
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-25	

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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:
	Cosmetic - NEW!				Login or register
2011272	**Cosmetics - phthalates**	☐	MnHexP (CAS 24539-57-9) [mg/kg], DnHexP (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-25	
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] (all quantitative)	Jun-25	
	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). This proficiency test offers you the opportunity to check your analyses of a large number of perfluorinated compounds.				
	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-25	
2010206	**Care products**	☐	Methyl 4-hydroxybenzoate calculated as acid [g/100g], Ethyl 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-25	
3010015	**Shampoo, lotion**	☐	density [g/ml], pH value [-], dry matter [g/100g], water content [g/100g], urea [g/100g], aw value [-] (all quantitative)	Aug-25	
2010201	**Cream, lotion**	☐	dexpanthenol [g/100g], α-tocopherolacetat [g/100g], retinolpalmitate [g/100g] (all quantitative)	Dec-25	
3010017	**Dental care - total fluoride**	☐	total fluoride [g/100g] (all quantitative)	Oct-25	
2010332	**Cosmetics - metals**	☐	aluminium (Al) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Apr-25	
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-25	
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-25	
2010558	**Cosmetics - mineral oil**	☐	MOSH C10-C50 [g/100g], MOAH C10-C50 [g/100g] (all quantitative)	Dec-25	
2010650	**Cosmetics - anti-dandruff products**	☐	pirocton-olamine (CAS 68890-66-4) [g/100g], zinc pyrithione (CAS 13463-41-7) [g/100g] (all quantitative)	Dec-25	
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-25	
2010397	**Self-tanner**	☐	free formaldehyde (CAS 50-00-0) [mg/kg], dihydroxyacetone (CAS 96-26-4) [g/100 g] (all quantitative)	Jun-25	
2011022	**Cosmetics - rheology (ISO 3219)**	☐	viscosity (all quantitative)	Jun-25	
2011100	**Cosmetics - 3-iodoprop-2-yn-1-yl butylcarbamate (IPBC)**	☐	IPBC (CAS 55406-53-6) [g/100 g] (all quantitative)	Sep-25	
2011129	**Cosmetics - AOX**	☐	AOX [mg/kg calculated as chlorine] (all quantitative)	Aug-25	
2011141	**Cosmetic products – pesticides**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-25	
2011158	**Cosmetic products - allergenic fragrances**	☐	identification of various allergenic fragrances (qual.), quantification of the identified fragrances [mg/kg] (quant.)	Oct-25	

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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:
	Leather - NEW!				Login or register
2011251	**Leather - chromium (VI)**	☐	chromium VI (Cr VI) [mg/kg] (all quantitative)	Oct-25	
2011252	**Footwear materials - 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-25	
2011253	**Footwear materials - 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)	Sep-25	
	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-25	
2010192	**Leather - volatile matter (ISO 4684)**	☐	Mass fraction of volatile substances [%] (all quantitative)	Jun-25	
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], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg] (all quantitative)	Jul-25	
2010200	**Leather - 4-aminoazobenzene (ISO 17234-2)**	☐	4-aminoazobenzene (CAS 60-09-3) [mg/kg] (all quantitative)	Jul-25	
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-25	
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-25	
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-25	
2011005	**Footwear materials - dimethyl fumarate (DMFU) (ISO 16186)**	☐	Dimethyl fumarate (CAS 624-49-7) [mg/kg] (all quantitative)	Aug-25	
2011007	**Footwear materials - dimethylformamide (DMF) (ISO 16189)**	☐	Dimethylformamide (CAS 68-12-2) [mg/kg] (all quantitative)	Aug-25	
2011146	**Footwear materials - PAHs (ISO 16190)**	☐	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-25	
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-25	
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-25	
2010196	**Leather – formaldehyde content (ISO 17226-1)**	☐	free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Oct-25	
2011122	**Leather - pesticide residues content (ISO 22517)**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Oct-25	

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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:
	Textiles - NEW!				Login or register
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-25	
	Textiles				
2010185	**Textiles - formaldehyde (ISO 14184-1)**	☐	free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	May-25	
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] (all quantitative)	Nov-25	
2011013	**Textiles - extractable dyestuffs (ISO 16373-2)**	☐	identification of various allergenic and carcinogenic dyes (qual.), quantification of the identified dyes (quant.)	Jun-25	
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], DIPB (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-25	
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-25	
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-25	
2010430	**Textiles - lead release (saliva simulant, EN 16711-3)**	☐	lead release [µg/cm²/h] (all quantitative)	May-25	
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-25	
2010175	**Textiles - PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/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], 6:2 FTA (CAS 17527-29-6) [mg/kg], 8:2 FTA (CAS 27905-45-9) [mg/kg], 10:2 FTA (CAS 17741-60-5) [mg/kg], 6:2 FTMA (CAS 2144-53-8) [mg/kg], 8:2 FTMA (CAS 1996-88-9) [mg/kg], total fluor (TF) [mg/kg] (all quantitative)	Oct-25	
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-25	
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-25	
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(2,3-dibrompropyl)-phosphate (CAS 126-72-7) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg] (all quantitative)	Dec-25	
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-25	

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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:
	Textiles				Login or register
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], 3,4-Dichlorotoluene (CAS 95–75–0) [mg/kg], 2,3,6-Trichlorotoluene (CAS 2077–46–5) [mg/kg], 2,4,5-Trichlorotoluene (CAS 6639–30–1) [mg/kg], Pentachlorotoluene (CAS 877–11–2) [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] (all quantitative)	May-25	
2010227	**Textiles – chlorophenoles**	☐	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-25	
2011144	**Textiles - rPET share**	☐	rPET share [%] (all quantitative)	Jul-25	
2010177	**Textiles - pesticides**	☐	identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-25	
	Tattoo ink - NEW!				
2011269	**Tattoo ink - PAKs**	☐	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-25	
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-25	
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-25	
	Tattoo ink				
2010338	**Tattoo ink - preservatives**	☐	BIT (CAS 2634-33-5) [mg/kg] (all quantitative)	Apr-25	
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-25	
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-25	

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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:
	Toys - NEW!				Login or register
2011266	**Toys - phthalates (CPSC-CH-C1001-09.4)**	☐	DBP (CAS 84-74-2) [% (w/w)], DIPB (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-25	
2011267	**Toys - lead in paint (CPSC-CH-E1003-09.1)**	☐	lead (Pb) [µg/g] (all quantitative)	Jun-25	
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], 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-25	
	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-25	
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-25	
2010299	**Wobble mass, slime - boron (EN 71-3)**	☐	boron (B) [mg/kg] (all quantitative)	Sep-25	
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-25	
2010440	**Finger paint - preservatives (EN 71-7)**	☐	benzoic acid [g/100g], sorbic acid [g/100g], Methyl 4-hydroxybenzoate calculated as acid [g/100g], Ethyl 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)	Aug-25	
2011154	**Toys - migration of plasticizers (EN 71-9)**	☐	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-25	
2010626	**Liquid toys - preservatives (EN 71-10, EN 71-11)**	☐	BIT (CAS 2634-33-5) [mg/kg], MI (CAS 2682-20-4) [mg/kg] (all quantitative)	Apr-25	
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-25	
2010257	**Toys - migration monomeres (EN 71-11)**	☐	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-25	
2010255	**Toys - dyes (EN 71-11)**	☐	Detection of dyes in toy material extract [-] (all qualitative)	Jul-25	
2010253	**Finger paint - NDELA (EN 71-12)**	☐	NDELA (CAS 1116-54-7) [µg/kg] (all quantitative)	Apr-25	
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-25	
2010564	**Toys - colourfastness (DIN 53160)**	☐	colour fastness (artificial saliva) [-], colour fastness (artificial sweat) [-] (all quantitative)	Jun-25	
2011009	**Toys - lead, cadmium (CPSC-CH-E1004-11, CPSC-CH-E1002-08.3)**	☐	lead (Pb) [mg/kg], cadmium (Cd) [µg Cd] (all quantitative)	Jul-25	
	Jewellery				
2010568	**Jewellery (acc. to EN 1811)**	☐	surface area [cm²], nickel release [µg/cm²/week] (all quantitative)	Jul-25	
2010969	**Lead and cadmium in jewelry**	☐	lead (Pb) [mg/kg], cadmium (Cd) [mg/kg] (all quantitative)	Oct-25	

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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-25	
	Cleaning agent				
2010914	**Organic acids**	☐	citric acid (anhydrous) [g/100 ml], formic acid [g/100 ml], sulfamic acid [g/100 ml] (all quantitative)	Oct-25	
2010916	**Oxidizing agent**	☐	sodium hypochlorite [g/100g], hydrogen peroxide [g/100g], sodium percarbonate [g/100g] (all quantitative)	Oct-25	
2010920	**Acid, alkali cleaning agent**	☐	pH value [-], acid reserve [g NaOH/100g], alkali reserve [g NaOH/100g] (all quantitative)	Apr-25	
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-25	

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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:
	films				Login or register
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-25	
	paper and board				
3010024	**Sensory of board and paper acc. to EN 1230**	☐	sensory analysis - sample preparation, intensity estimation, descriptive testing	Sep-25	
3010022	**Threshold value examination off flavour**	☐	threshold value	Aug-25	

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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	**Mesophilic sterility testing tinned food**	☐	mesophilic germ load (all qualitative)	**risk group 1**	Sep-25	
2010928	**Thermophilic sterility testing tinned food**	☐	thermophilic germ load (55°C) (all qualitative)	**risk group 1**	Sep-25	
2010950	**Anaerobic mesophilic sterility testing tinned food**	☐	anaerobic mesophilic germ load (all qualitative)	**risk group 2**	Sep-25	
Plastic surface - NEW!						
2011299	**Enterobacteriaceae plastic surface**	☐	Enterobacteriaceae [cfu/100qcm] (all quantitative)	**risk group 1**	Sep-25	
2011300	**Listeria spp. plastic surface**	☐	Listeria spp. [cfu/100qcm] (all quantitative)	**risk group 2**	Sep-25	
Plastic surface						
2010119	**Moulds plastic surface**	☐	moulds [cfu/100qcm] (all quantitative)	**risk group 1**	Sep-25	
2010191	**Aerobic total count plastic surface**	☐	aerobic total count [cfu/100qcm] (all quantitative)	**risk group 1**	Sep-25	
Paper and board - NEW!						
2011304	**Aerobic bacteria on paper, board (ISO 8784-2)**	☐	aerobic total count (all quantitative)	**risk group 1**	Nov-25	
2011305	**Moulds on paper, board (ISO 8784-2)**	☐	moulds (all quantitative)	**risk group 1**	Nov-25	
Paper and board						
2010279	**Paper - transition of antimicrobial components (EN 1104)**	☐	antibacterial effect Bacillus subtilis [mm], antimycotic effect Aspergillus niger [mm] (all qualitative)		Nov-25	
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-25	
2010071	**Aerobic Bacteria O W-emulsion**	☐	aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Oct-25	
2010079	**Moulds O W-emulsion**	☐	moulds [cfu/g] (all quantitative)	**risk group 1**	Oct-25	
2010077	**Identification of germs O W-emulsion**	☐	identification of germs (all qualitative)	**risk group 2**	Oct-25	
2010356	**S.aureus O W-emulsion**	☐	S.aureus (all qualitative)	**risk group 2**	Oct-25	
2010358	**E.coli O W-emulsion**	☐	E.coli (all qualitative)	**risk group 2**	Oct-25	
2010360	**C.albicans O W-emulsion**	☐	C.albicans (all qualitative)	**risk group 2**	Oct-25	
2010362	**Ps.aeruginosa O W-emulsion**	☐	Ps.aeruginosa (all qualitative)	**risk group 2**	Oct-25	
Textiles						
2010076	**Antimicrobial Fabric Test textiles - AATCC 100**	☐	antibacterial activity S.aureus [% reduction], antibacterial activity K.pneumoniae [% reduction] (all quantitative)		May-25	
2010078	**Antibacterial Parallel Streak textiles - AATCC 147**	☐	antibacterial activity S.aureus, antibacterial activity K.pneumoniae (all qualitative)		May-25	
2010080	**Antibacterial Activity textiles - ISO 20743**	☐	antibacterial activity S.aureus [log10 reduction], antibacterial activity K.pneumoniae [log10 reduction] (all quantitative)		May-25	
2011104	**Antibacterial Activity textiles - AATCC 90**	☐	antibacterial activity S.aureus [mm], antibacterial activity K.pneumoniae [mm] (all qualitative)		May-25	
2010147	**Cotton (GMO)**	☐	detection of screening elements P-35S, T-NOS and pat (qual.), relative amount T304-40 [%] (quant.), relative amount DAS-81910-7 [%] (quant.)		Dec-25	
tattoo ink						
2010354	**Aerobic bacteria in tattoo ink**	☐	aerobic total count [cfu/g] (all quantitative)	**risk group 1**	Oct-25	

[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).

Proficiency testing - immunological, molecular biological & microbiological

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Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	disinfectant - NEW!					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-25	
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-25	
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-25	
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-25	
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-25	
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-25	
	disinfectant					
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-25	
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-25	
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-25	
2010692	**Disinfectant sporocidal activity (EN 17126)**	☐	sporocidal activity B.subtilis [log10 pfu/ml], sporocidal activity B.cereus [log10 pfu/ml] (all quantitative)		Jun-25	
2010694	**Disinfectant virucidal activity (EN 14476)**	☐	virucidal activity (Vacciniavirus) [log10 pfu/ml] (all quantitative)		Jun-25	
	toys - NEW!					
2011302	**Salmonella spp. toys containing aqueous media**	☐	Salmonella spp. (all qualitative)	**risk group 2**	Jul-25	
2011303	**Enterobacteriaceae toys containing aqueous media**	☐	Enterobacteriaceae [cfu/g] (all quantitative)	**risk group 1**	Jul-25	

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registration form proficiency testing

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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

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
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Deutsches Referenzbüro
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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.

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

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]	
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]	
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)]	

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

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
Paper and board				
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]	
1151161	**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]	
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 - migration 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]	
1151202	**Metals and alloys - migration of metals part 2**	☐	envelope volume [cm³], 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]	
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

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], Ethyl 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]	
1151200	**Footwear materials - 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]	
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(2,3-dibrompropyl)-phosphate (CAS 126-72-7) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg]	
1151087	**Textiles - PFAS**	☐	total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/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], 6:2 FTA (CAS 17527-29-6) [mg/kg], 8:2 FTA (CAS 27905-45-9) [mg/kg], 10:2 FTA (CAS 17741-60-5) [mg/kg], 6:2 FTMA (CAS 2144-53-8) [mg/kg], 8:2 FTMA (CAS 1996-88-9) [mg/kg], total fluor (TF) [mg/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], DIPB (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]	
Toys				
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

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	**Mesophilic sterility testing tinned food**	☐	mesophilic germ load (pos./neg.)	**risk group 1**	
2251019	**Thermophilic sterility testing tinned food**	☐	thermophilic germ load (55°C) (pos./neg.)	**risk group 1**	
2251020	**Anaerobic mesophilic sterility testing tinned food**	☐	anaerobic mesophilic germ load (pos./neg.)	**risk group 2**	
Plastic surface					
2251001	**Moulds plastic surface**	☐	moulds [cfu/100qcm]	**risk group 1**	
2251002	**Aerobic total count plastic surface**	☐	aerobic total count [cfu/100qcm]	**risk group 1**	
2251037	**Enterobacteriaceae plastic surface**	☐	Enterobacteriaceae [cfu/100qcm]	**risk group 1**	
2251038	**Listeria spp. plastic surface**	☐	Listeria spp. [cfu/100qcm]	**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	**Aerobic bacteria on paper, board (ISO 8784-2)**	☐	aerobic total count	**risk group 1**	
2251040	**Moulds on paper, board (ISO 8784-2)**	☐	moulds	**risk group 1**	
Cosmetic					
2251005	**Aerobic Bacteria O W-emulsion**	☐	aerobic total count [cfu/g]	**risk group 1**	
2251006	**Moulds O W-emulsion**	☐	moulds [cfu/g]	**risk group 1**	
2251007	**E.coli O W-emulsion**	☐	E.coli (pos./neg.)	**risk group 2**	
2251008	**S.aureus O W-emulsion**	☐	S.aureus (pos./neg.)	**risk group 2**	
2251009	**Identification of germs O W-emulsion**	☐	identifcation of germs	**risk group 2**	
2251010	**C.albicans O W-emulsion**	☐	C.albicans (pos./neg.)	**risk group 2**	
2251011	**Ps.aeruginosa 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	**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.

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 activity (Vacciniavirus) [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.

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

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

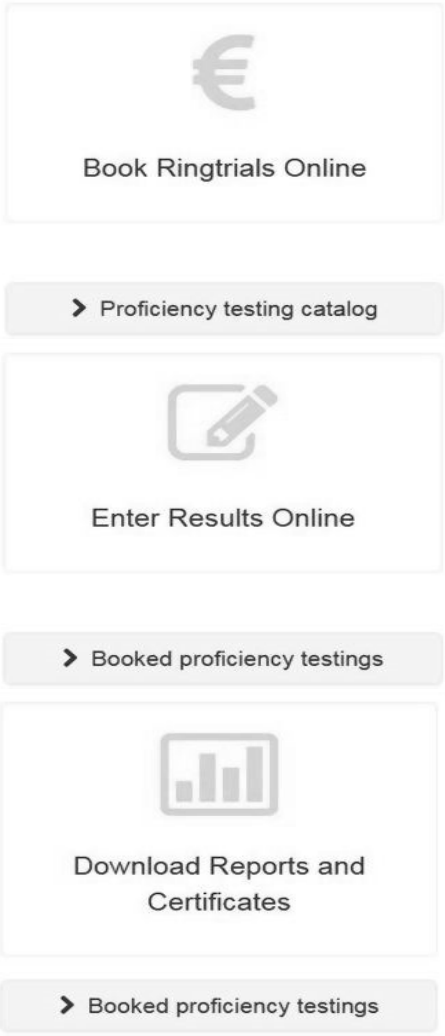
Secure payment with IRIS (Internet Remuneration Information Service).

• 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.



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.

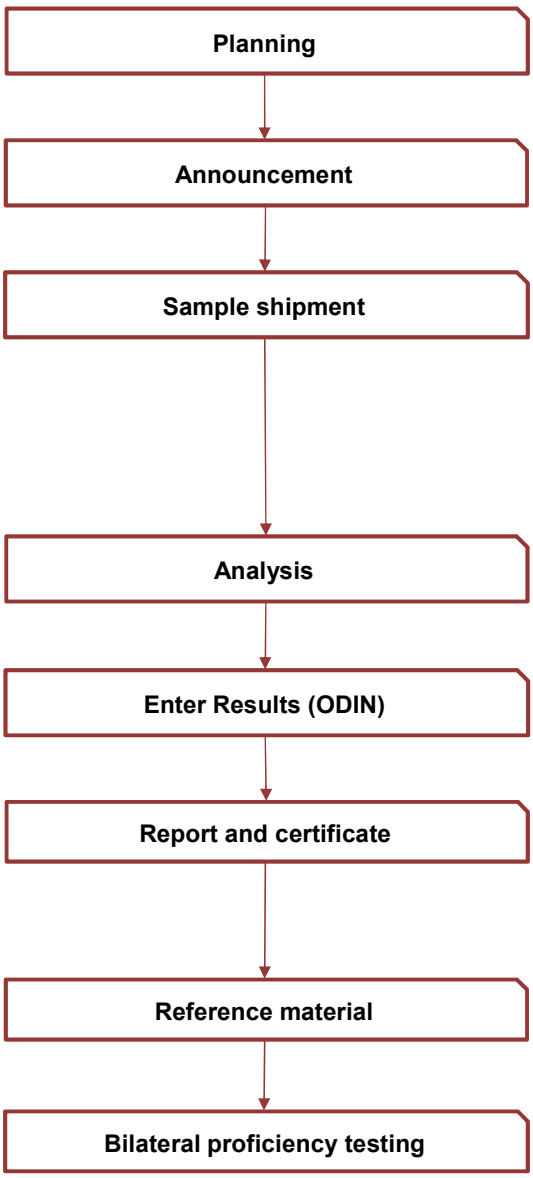
• After receiving the samples you will have a period of 4 weeks for analysing

• 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)



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

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

Homogenous 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)

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.

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.

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.

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.

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!

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 €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
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.

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.

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