



LGC Proficiency testing schemes

Application forms

April Start 2016-2017

food and feed • water and environment • beverage • clinical • consumer safety • forensics • online reporting • bespoke and closed programmes



LGC Standards - your first choice in proficiency testing

LGC is an accredited international provider of Proficiency Testing (PT) schemes also known as External Quality Assessment (EQA) schemes.

We have over thirty years experience in all aspects of providing PT services to laboratories undertaking chemical, clinical, microbiological, and physical testing as well as measurements.

LGC Standards annually runs over 1,600 proficiency testing exercises, serving more than 10,000 laboratories. We produce in excess of 220,000 test materials per annum which are distributed to over 150 countries worldwide.

We offer an unprecedented breadth of PT schemes across a wide range of sectors such as food, beverages, environment, clinical, forensics, consumer safety and industrial.

In addition to the variety of schemes offered, LGC Standards can also provide managed solutions for in-house proficiency testing providers and training for participants and their customers.

For further information contact us:

Tel: **+49 (0)281 9887 250** Fax: **+49 (0)281 9887 259**

Email: ptcustomerservices@lgcgroup.com

April Start schemes

Application forms

Water and environment PT schemes

AIR PT	Analysis of workplace air, ambient air, indoor / chamber air and stack emissions
AQUACHECK	Chemical analysis of waters, agricultural soils and sludges
CONTEST	Analysis of contaminated land

Clinical PT schemes

DAH*	Drugs and abuse in hair
DAU	Drugs and abuse in urine
DOF	Drugs in oral fluid
TOX	Clinical toxicology analysis in blood, serum, urine and case studies

* Currently not included in our scope of accreditation

Consumer safety PT schemes

COSMETICS	Chemical and microbiological analysis of cosmetics and toiletries products
PHARMASSURE	Chemical and microbiological analysis of pharmaceutical products, instrument techniques and sterility testing

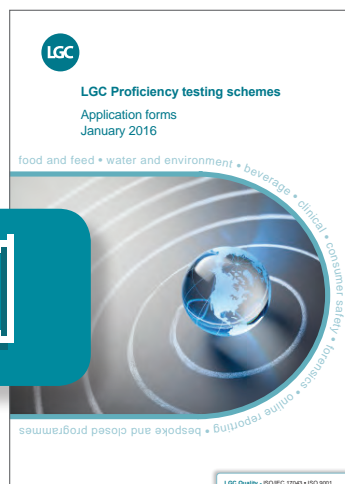
Forensic PT schemes

QUARTZ	Forensic toxicological analysis of drugs and alcohol in blood
FAE	Forensic analysis of explosives

Customer statement

Accreditation certificate

Don't miss our
January Start schemes



Don't miss our January start schemes

Food and feed PT schemes

AFPS	Chemical and microbiological analysis of animal feed
QCS	Chemical and microbiological analysis of chocolate and cocoa powder
QDCS	Chemical analysis of dairy products
QFCS	Chemical analysis of food products and standard solutions
QGS	Chemical and microbiological analysis of gelatine
QMAS	Chemical and microbiological analysis of meat, fish and shellfish
QMS	Microbiological analysis of food and food ingredients

Environment and water PT schemes

HYGIENE*	Workplace environmental monitoring of surfaces
QWAS	Microbiological analysis of waters and effluent sludge

Beverage PT schemes

BAPS	Chemical, microbiological and sensory analysis of beer
DAPS	Chemical analysis of alcoholic and distilled beverage
MAPS	Chemical and physical analysis of malted barley and barley used in brewing and distilling
QBS	Chemical and microbiological analysis of soft drinks and fruit juices
SUPS	Chemical and microbiological analysis of sugar and natural sweeteners

Clinical PT schemes

TDM	Quantification of therapeutic drugs in blood, plasma, serum and urine
ASI**	Immunosuppressive drugs

Consumer safety PT schemes

NiMS	Determination of Nickel release against EN 1811 (2011)
TOYTEST	Assessment of toys, paper exercises and solutions against European EN 71 and American F963 toy safety standards

Forensic PT schemes

FIRMS	Forensic isotope ratio mass spectrometry
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Industrial PT schemes

OIL PT*	Chemical analysis of oils, fuels and lubricants
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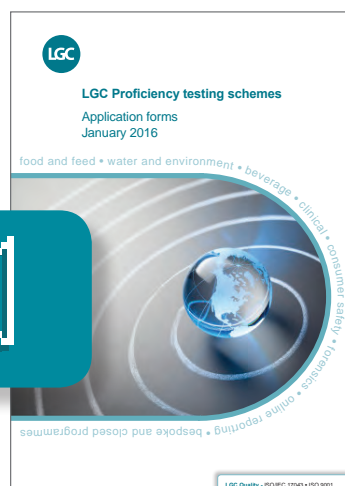
Other products

DCALS*	Dairy calibration test materials
easi-tab™	Quantitative microbiological reference materials

*Currently not included in our scope of accreditation

**This scheme is managed and operated by ASI Ltd and is not included in LGC Standards' UKAS scope of accreditation. The scheme complements the LGC TDM scheme and participants may order the scheme through

Don't miss our
January Start schemes





Air & Stack Emissions

AIR PT 2016 - 2017


Workplace Air, Ambient Air, and Stack Emissions
Proficiency Testing Scheme Application Form



Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
Tel: +49 (0)281 9887 250, Fax: +49 (0)281 9887 259, Email: grm.de@lgcgroup.com

Round	Despatch Date	Reporting Deadline	Samples																																
			1	NEW 1A*	2X	2F	3	4	5	6	7	8	9*	10 A*	10 B*	10 C*	11	12	NEW 12 A*	13 *	14 *	15 *	21	NEW 22 *	31	32	33	34	35	36	37	38*	39*	40*	41*
AR013	11 Apr 2016	06 May 2016																																	
AR014	23 May 2016	29 Jul 2016																																	
AR015	18 Jul 2016	12 Aug 2016																																	
AR016	26 Sep 2016	21 Oct 2016																																	
AR017	21 Nov 2016	03 Feb 2017																																	
AR018	16 Jan 2017	10 Feb 2017																																	

*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

 Not available

 Please indicate the number of samples required in the relevant boxes above

For details on the full technical specification of the scheme please refer to the AIR Scheme Description. The scheme description is available [here](#).





Air & Stack Emissions

AIR PT 2015 - 2016



Workplace Air, Ambient Air, and Stack Emissions
Proficiency Testing Scheme Application Form

Workplace Air

Sample	Analytes	Test Material
1[#] Metals	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc	4 x spiked membrane filters 25mm Ø
NEW 1A^{##} Metals	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc	4 x spiked cassette capsules 37mm Ø
2X - XRD Quartz	Respirable grade quartz by XRD	4 x dynamically loaded PVC GLA5000 filters 25mm Ø
2F - FTIR Quartz	Respirable grade quartz by FTIR	4 x dynamically loaded PVC GLA5000 filters 25mm Ø
3^{**} Dust	Dust by gravimetry (mass of solids)	4 x spiked glass fibre filters 25mm Ø
4^{**} Dust	Dust by gravimetry (mass of solids)	4 x spiked glass fibre filters 37mm Ø
5 VOCs	Benzene; Toluene; Xylene; Ethyl benzene	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)
6 VOCs	1,1,1-Trichloroethane; n-Hexane; n-Butyl acetate; Tetrachloroethene, Trichloroethylene	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)
7 VOCs	Benzene; Toluene; Xylene; Ethyl benzene	4 x dynamically loaded Tenax thermal desorption tubes (workplace air levels)
8 Aldehydes	Formaldehyde, Acetaldehyde	4 x spiked glass fibre filters 25mm Ø
9^{##} Cr (VI)	Chromium (VI)	4 x spiked NaOH treated Millipore PVDF filters 25 mm Ø
10A^{***} Metals	Chromium, Cobalt, Copper, Iron, Manganese, Nickel, Zinc	1 x bulk welding fume sample
10B^{***} Lead	Lead	1 x bulk lead-containing dust sample
10C^{***} Metals	Cadmium, Chromium, Cobalt, Copper, Iron, Manganese, Nickel, Lead, Zinc	1 x bulk metal ore/refinery dust sample
15^{##} Lactose	Lactose (surrogate particle tracer)	4 x spiked glass fibre filters 25mm Ø

[#]For sample 1, the manganese measurand is not currently included in LGC Standards' UKAS scope of accreditation.

^{##}Samples 1A, 9 and 15 are not included in LGC Standards' UKAS scope of accreditation.

^{**}Filters are despatched to participants in order for them to weigh and then should be returned to LGC Standards Bury for spiking. LGC Standards Bury then re-send the spiked filters back to the participants for reweighing. Please see page 4 for further details.

^{***}For sample 10A, 10B and 10C, one or more of the above elements will be included in each round. These samples are also not included in LGC Standards' UKAS scope of accreditation.

Indoor/Chamber Air

Sample	Analytes	Test Material
21 VOCs (Material Emission Testing)	Up to 13 components, including Benzene; n-Hexane; Toluene; Butyl acetate; MIBK; Cyclohexanone; p-Xylene; a-Pinene; Phenol; 124-TMB; Limonene; 4-PCH; Dodecane	4 x dynamically loaded Tenax thermal desorption tubes at chamber air levels
NEW 22^{##} VOCs (Qualitative determination)	Qualitative determination of VOCs including alcohol, aliphatic, aromatic, ester, halocarbon and terpene compounds	2 x dynamically loaded Tenax thermal desorption tubes at chamber air levels

^{##}Sample 22 is not included in LGC Standards' UKAS scope of accreditation.



V1

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Air & Stack Emissions

AIR PT 2015 - 2016

Workplace Air, Ambient Air, and Stack Emissions
Proficiency Testing Scheme Application Form



Ambient Air

Sample	Analytes	Test Material
11 NO ₂	Nitrogen dioxide (as nitrite)	4 x dynamically loaded Palmes type diffusion tubes
12 VOCs	Benzene; Toluene; Xylene; Ethyl benzene	4 x dynamically loaded Tenax thermal desorption tubes (ambient air levels)
NEW 12A^{##} VOCs	Benzene; Toluene; Xylene; Ethyl benzene	4 x dynamically loaded Carbopack thermal desorption tubes (ambient air levels)
13^{##} Metals	Cadmium; Nickel; Lead; Arsenic	4 x spiked quartz fibre filters 47mm Ø
14^{##} Anions on filters	Chloride, Nitrate, Sulfate	4 x spiked quartz fibre filters 47 mm Ø

^{##} Sample 12A, 13 and 14 are not included in LGC Standards' UKAS scope of accreditation.

Stack Emissions

Sample	Analytes	Test Material
31 Mercury	Volume; Mercury	1 x potassium permanganate & sulfuric acid impinger solution containing mercury
32 Mercury	Volume; Mercury	1 or 2 x Potassium dichromate & nitric acid impinger solution containing mercury
33 Metals	Volume; Cadmium; Nickel; Lead; Arsenic; Antimony; Chromium; Cobalt; Copper; Manganese; Thallium; Vanadium	1 x nitric acid impinger solution containing up to 6 trace metals
34 Sulfur dioxide	Volume; Sulfur dioxide	1 x hydrogen peroxide impinger solution containing SO ₂
35 Hydrogen fluoride	Volume; Hydrogen fluoride	1 x sodium hydroxide impinger solution containing HF
36 Hydrogen chloride	Volume; Hydrogen chloride	1 x aqueous impinger solution containing hydrogen chloride
37 Ammonia	Volume; Ammonia	1 x sulfuric acid impinger solution containing ammonia
38^{##} Metals	Cadmium; Nickel; Lead; Arsenic; Antimony; Chromium; Cobalt; Copper; Manganese; Thallium; Vanadium	1 x quartz filter spiked with up to 6 trace elements and fly ash 47 mm Ø
39^{##} Dust analysis (solution)	Total solids	1 x rinsing solution containing dissolved and suspended solids
40^{**} Dust analysis (filter)	Dust analysis (mass of solids)	4 x spiked quartz filters 47 mm Ø
41^{##} NO _x	Volume; Nitrogen oxides (determined as NO ₂)	1 x variable volume 4% m/m potassium permanganate/2% m/m sodium hydroxide impinger solution containing potassium nitrate

^{##} Samples 38, 39 and 41 are not included in LGC Standards' UKAS scope of accreditation.

^{**} Please see below for further details. Sample 40 is not included in LGC Standards' UKAS scope of accreditation.



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Air & Stack Emissions

AIR PT 2015 - 2016

Workplace Air, Ambient Air, and Stack Emissions
Proficiency Testing Scheme Application Form



Dust Filter Samples (3, 4 and 40) Distribution Schedule

For the dust filter samples (3, 4 and 40), four quartz filters are despatched to participants in order for them to weigh. Participants then ship the filters back to LGC Standards Bury for spiking. LGC Standards Bury re-send the spiked filters back to the participants for reweighing who then report the results (initial value; reweighing value; calculated difference) to LGC Standards Bury via PORTAL for assessment. Dust filter sample specific dates:

Round	Despatch Date (week commencing)	Filters required back at LGC by	Filters re-despatch date (week commencing)	Reporting Deadline
AR014	23 May 2016	17 Jun 2016	11 Jul 2016	29 Jul 2016
AR017	21 Nov 2016	16 Dec 2016	16 Jan 2017	03 Feb 2017

For details on the full technical specification of the scheme please refer to the AIR Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
<div></div>	

Returning customer Lab ID (optional): <div></div>	Purchase order no. (optional): <div></div>
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For additional information and costs, please contact Customer Services by email: grm.de@lgcstandards.com or by telephone: +49 (0)281 9887 250.

Extra samples

For additional samples per round please state clearly the number of samples, the sample type(s) and the rounds below.

- Additional (or repeat) samples for samples 7, 12, 12A, 21 and 22 (those with Tenax thermal desorption tubes) may be purchased but will be charged at full price.
- Additional samples for the filter samples 3, 4 and 40 may be purchased but will be charged at full price; however, repeat samples (after the reporting deadline) cannot be purchased.
- Additional (or repeat) samples for samples 1, 1A, 5, 6, and 13 may be purchased.
- Additional samples for sample 8, 9, 10A, 10B, 10C, 14 and 15 may be purchased; however, repeat samples (after the reporting deadline) cannot be purchased.
- Additional (or repeat) samples for all Stack emission samples 31-39 and 41, may be purchased.
- Additional (or repeat) samples for samples 2 and 11 are not available at this time.



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Air & Stack Emissions

AIR PT 2015 - 2016

Workplace Air, Ambient Air, and Stack Emissions
Proficiency Testing Scheme Application Form



Please note:

- This scheme is managed and operated by LGC Standards and is supported through technical advice from HSL. LGC is the accredited PT provider of this scheme.
- Thermal desorption tubes used in samples 7, 12, 12A, 21 and 22 are the Perkin Elmer type (6.4mm OD, 5 mm ID and 90 mm long); however, it may be possible to also accommodate Gerstel 6mm OD, 4 mm ID and 178 mm long. Please contact LGC Standards Proficiency Testing for further details.
- Thermal desorption tubes must be returned at the participant's cost to LGC Standards within 2 months after receipt (including additional or repeat samples). Failure to do so will result in an additional charge of € 350,00 per sample set being made to replace the tubes.
- When returning thermal desorption tubes, please label the parcels with the supplied label "Returned Sample tubes for laboratory proficiency testing – no commercial value" and declare a "nominal value of £1 / \$1 / €1". Failure to do so could result in any incurred excise / importation fee being passed onto the participant.
- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for current charges.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services and the AIR PT scheme specific requirements noted above.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing grm.de@lgcgroup.com

Signature

Date



V1

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
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Water Chemistry Aquacheck 2016 - 2017

Aquacheck Proficiency Testing Scheme Application Form



Please fill in your address details below:

Send Test Materials to:	Send Invoices to:

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional): **AQ** Purchase order no. (optional):

Please indicate the samples and rounds required on pages 2-6.

Sample	Clean Waters – Inorganic and Nutrients	Round number(s) required
1H	Major Inorganic Components (Hard Water)	
1S	Major Inorganic Components (Soft Water)	
2H	Nutrients and Others (Hard Water)	
2S	Nutrients and Others (Soft Water)	
N.B: The per annum discount is applicable for all laboratories taking part in a combination of five rounds of 1H+1S or 2H+2S.		
1A	Major Ions in Higher Salinity Potable Water	
2A	pH in Poorly Buffered Waters	
3	Non-specific Analytes	
3A	Inorganic Disinfection By-products	
3B	Free Chlorine	
3C	Total Chlorine	
4	Metals (Preserved in 0.5% Nitric Acid)	
4G	Metals in Groundwater (Preserved in 0.5% Nitric Acid)	
5	Toxic Metals (Preserved in 0.5% Nitric Acid)	
5A	Metals for Hydride Generation (Preserved in 0.5% Hydrochloric Acid)	
5B	EQS Metals (Preserved in 0.5% Nitric Acid)	
5C	Chromium (VI) in Clean Water	
5G	Toxic Metals in Groundwater (Preserved in 0.5% Nitric Acid)	

***Maximum number of distributions is three



Water Chemistry

Aquacheck 2016 - 2017

Aquacheck Proficiency Testing Scheme Application Form



Sample	Clean Waters - Organic	Round number(s) required
6A	Haloforms and Chlorinated Solvents	
6B [#]	Phenols	
6C	Benzene, Toluene and Xylenes	
7A [#]	Organochlorine Pesticides	
7B	Chlorinated Solvents	
7C	Polycyclic Aromatic Hydrocarbons	
7D	Polychlorinated Biphenyls	
8 [#]	Acid Herbicides	
8B [#]	Triazines and Urea Herbicides	
9 [#]	Organophosphorus Pesticides	
26	PFOS and PFOA	
28	Formaldehyde	
33 ^{##}	Chlorophyll <i>a</i>	
36 ^{##}	Taste and Odour	
37 ^{##}	Acrylamide	
38 ^{##}	UV Absorbing Organic Constituents	
39 ^{##}	Geosmin and MIB	
40 ^{##}	Fungicides	

Sample	Waste Waters and Effluents – Inorganic and Nutrients	Round number(s) required
10	Nutrients and other analytes	
11	Non-specific Analytes	
12 [#]	Metals (Preserved in 0.5% Nitric Acid)	
12C	Chromium (VI) in Waste Water	
15	Settleable Solids	
29	High and Low COD	
35 ^{##}	BOD/COD at high concentration	

Sample	Sewage Sludge – Inorganic Determinands	Round number(s) required
13	Sewage Sludge Inorganics and Specific Elements	
16	Compositional Analysis of Sewage Sludge	

****Maximum number of distributions is two. ***Maximum number of distributions is three.**

[#]Please note that certain analytes within these samples are not included in the scope of LGC's UKAS accreditation.

Please check the Aquacheck Scheme Description for further details. The scheme description is available [here](#).

^{##}Please note that samples 33-40 are not currently within the scope of LGC's UKAS accreditation.



Water Chemistry

Aquacheck 2016 - 2017

Aquacheck Proficiency Testing Scheme Application Form



Sample	Soils – Inorganic Determinands	Round number(s) required
14	Agricultural Soil Inorganics and Specific Elements	

Sample	Waste Waters and Effluents – Industrial Waste Waters	Round number(s) required
17A	Major Waste Water Analytes	
17B	Total Phenol, Cyanide and Sulfate	
17C	Metals (Preserved in 0.5% Nitric Acid)	
17D	Ammonia, Phosphate and Nitrogen	
32 ^{##}	Sulfide	

^{##}Please note that sample 32 is not currently within the scope of LGC's UKAS accreditation.

Sample	Waste Waters - Organic	Round number(s) required
18A	Haloforms and Chlorinated Solvents	
18B [#]	Phenols	
18C	Benzene, Toluene and Xylenes	
19A [#]	Organochlorine Pesticides	
19B	Chlorinated Solvents	
19C	Polycyclic Aromatic Hydrocarbons	
19D	Polychlorinated Biphenyls	
20 [#]	Acid Herbicides	
20B [#]	Triazines and Urea Herbicides	
21 [#]	Organophosphorus Pesticides	
23	Mineral Oil in Water	
24	Oil and Grease in Water	
27	AOX in Wastewater	

[#]Please note that certain analytes within these samples are not included in the scope of LGC's UKAS accreditation.

Please check the Aquacheck Scheme Description for further details. The scheme description is available [here](#).

Sample	Qualitative Waters	Round number(s) required
22	Qualitative Organics by GCMS	
22A	Qualitative Organics by Purge and Trap GCMS	
25	Qualitative Determination in Clean Water	

Sample	Radiochemistry	Round number(s) required
30	Gross Alpha and Gross Beta in Clean Water	
31	Aqueous Tritium in Clean Water	

Sample	Ecotoxicology	Round number(s) required
50	Ecotoxicology Tests	



Water Chemistry

Aquacheck 2016 - 2017

Aquacheck Proficiency Testing Scheme Application Form



Water Framework Directive – sample 34^{##}

Please indicate the required samples below.

Samples in round	Despatch Date	Reporting Deadline	Sample				
			34A	34B	34C	34D	34E
AQ506	16 May	13 Jun					

Samples in round	Despatch Date	Reporting Deadline	34F	34G	34H	34I	34J
AQ516	31 Oct	28 Nov					

For details on the full technical specification of the samples please refer to the Aquacheck Scheme Description. The scheme description is available [here](#).

Aquacheck Trial Samples^{##}

Please indicate the samples required below:

Round	Despatch Date	Reporting Deadline	Sample	Sample required (please tick)
AQ504	18 Apr	16 May	Synthetic pyrethroid insecticides	
AQ505	03 May	31 May	M-Certs	
AQ506	16 May	13 Jun	Triclosan	
AQ507	31 May	27 Jun	Haloacetic Acids	
AQ508	20 Jun	18 Jul	Microcystin-LR	
AQ509	04 Jul	01 Aug	Chelating Agents (NEW)	
AQ510	18 Jul	15 Aug	Inorganic NPK Fertilizer (NEW)	
AQ511	15 Aug	12 Sep	Cations and anions in High Salinity Water	
AQ512	30 Aug	26 Sep	Semi-volatile Organic Compounds	
AQ513	19 Sep	17 Oct	Uranium/Plutonium	
AQ514	03 Oct	31 Oct	Organic Fertilizer (NEW)	
AQ515	17 Oct	14 Nov	Low Level CIP2 contaminants (NEW)	
AQ516	31 Oct	28 Nov	Process water (sulfuric/tartaric acid)	
AQ517	14 Nov	12 Dec	Pharmaceuticals	
AQ518	28 Nov	09 Jan 2017	M-Certs	
AQ519	12 Dec	16 Jan	Microcystin-LR	
AQ520	16 Jan 2017	13 Feb	Perchlorate	
AQ521	30 Jan	27 Feb	Semi-volatile Organic Compounds	
AQ522	13 Feb	13 Mar	Process water (chloride)	
AQ523	27 Feb	27 Mar	Uranium/Plutonium	

^{##} Please note that these samples are not currently within the scope of LGC's UKAS accreditation. The trial samples will be run subject to the registration of a sufficient number of participants.

For details on the full technical specification of the samples please refer to the Aquacheck Scheme Description. The scheme description is available [here](#).



Water Chemistry

Aquacheck 2016 - 2017

Aquacheck Proficiency Testing Scheme Application Form



For additional information and costs, please contact Customer Services by email: grm.de@lgcstandards.com or by telephone: +49 (0)281 9887 250.

Extra samples

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT (charged at the prevailing rate) is payable by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. For details please contact LGC.
- All courier charges set by LGC do not include local import charges, taxes (etc.), which must be paid by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC cannot guarantee the number of participants that will return results for any particular parameter in each round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC for the current charges.
- Aquacheck Trial samples will be run subject to the registration of a sufficient number of participants and LGC reserves the right not to provide the samples should they prove technically impractical.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing grm.de@lgcgroup.com

Signature

Date



Contaminated Land CONTEST 2016 - 2017

Contaminated Land Proficiency Testing Scheme Application Form



Please complete all the relevant sections of the application form indicating the samples required and return to:

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany

Tel: +49 (0)281 9887 250, Fax: +49 (0)281 9887 259, Email: grm.de@lgcgroup.com

Round	Despatch Date	Reporting Deadline	Level of Participation	Samples								
				A	B	C	D	E	BTEX (22)	TPH (23)	VOCs (25)	OCs (26)
CN101	23 May 2016	20 Jun 2016	Full									
			Reduced									
CN102	25 Jul 2016	22 Aug 2016	Full									
			Reduced									
CN103	26 Sep 2016	24 Oct 2016	Full									
			Reduced									
CN104	21 Nov 2016	19 Dec 2016	Full									
			Reduced									
CN105	23 Jan 2017	20 Feb 2017	Full									
			Reduced									

Please note that it is possible to order individual samples on top of the Full or Reduced options (groups A-C); please see page 2 for further details

	Not available
X	Please indicate the samples required in the relevant boxes above

Sample Type		Samples Included
A - METALS	Full	Standard solutions: 1a, 1b, 1c, 13. Soil extract: 2. Soil sample: 3a
	Reduced	Soil sample only: 3a
B - INORGANICS	Full	Standard solutions: 6, 8, 10, 12, 16, 17. Soil sample: 3b
	Reduced	Soil sample only: 3b
C - ORGANICS	Full	Standard solutions: 5, 7a, 7b, 11, 14a, 14b, 15, 19, 20. Soil sample: 3c
	Reduced	Soil sample only: 3c
D - LEACHATE		Soil sample: 18.
E - WAC		Soils for Waste Acceptance Criteria Soil sample: 21. Leachate material: 24* CN101, CN103, CN105: Moderate contamination CN102: High contamination; CN104: Low contamination
BTEX in Soil		Sample 22* includes soil sample and standard solution
Total Hydrocarbons in Soil		Sample 23* includes soil sample and standard solution
VOCs in Soil		Sample 25* includes soil sample and standard solution
Organochlorine Pesticides in Soil		Sample 26* includes soil sample and standard solution

*Please note that samples 22 (BTEX), 23 (TPH in Soil), 24 (Leachate), 25 (VOCs in Soil) and 26 (OCs in Soil) are not currently within the scope of LGC's accreditation.

Please further note: soil samples do not always contain measurable concentrations of all analytes as listed in every round.

For details on the full technical specification of the scheme, please refer to the CONTEST Scheme Description. The scheme description is available [here](#).



Contaminated Land CONTEST 2016 - 2017

Contaminated Land Proficiency Testing Scheme Application Form



Please fill in your address details below:

Send Test Materials to:	Send Invoices to:

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional): Purchase order no. (optional):

Extra samples

For groups A-C, individual samples may be purchased on top of the Full or Reduced sample options. The table below should **only** be used to indicate additional sample requirements.

Round	Group A						Group B							Group C									
	3a	1a	1b	1c	2	13	3b	6	8	10	12	16	17	3c	5	7a	7b	11	14a	14b	15	19	20
CN101																							
CN102																							
CN103																							
CN104																							
CN105																							

For additional information and costs, please contact Customer Services by email: grm.de@lgcgroup.com or by telephone: +49 (0)281 9887 250.

Please note:

All prices stated are exclusive of VAT and carriage.

- VAT (charged at the prevailing rate) is payable by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. If you would like a guide as to these charges, please contact LGC Standards Proficiency Testing.
- All courier charges set by LGC Standards Proficiency Testing do not include local import charges, taxes (etc.), which will be covered by the participant.



Contaminated Land CONTEST 2016 - 2017

Contaminated Land Proficiency Testing Scheme Application Form



- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards Proficiency Testing for the current charges.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards Proficiency Testing reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards Proficiency Testing cannot guarantee the number of participants that will return results for any particular parameter in each round.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing grm.de@lgcgroup.com

Signature

Date



Drugs of Abuse in Hair DAH 2016 - 2017

Drugs of Abuse in Hair Proficiency Testing Scheme Application Form

Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com

Please tick the rounds in which you wish to participate:

Round	Despatch Date	Reporting Deadline	Please tick ✓
DH013	09 May 2016	06 Jun 2016	
DH014	26 Sep 2016	24 Oct 2016	
DH015	05 Dec 2016	09 Jan 2017	
DH016	20 Mar 2017	18 Apr 2017	

Sample Details

Participants will receive the following samples in each selected round:

Sample	Description	Presentation
1	For the quantification of up to 4 analytes	1 x 250 milligrams of 2-3 mm segments of human hair
2	For the identification and quantification of up to 4 analytes	1 x 250 milligrams of 2-3 mm segments of human hair

For details on the full technical specification of the scheme please refer to the DAH Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
<div></div>	

Returning customer Lab ID (optional): **DH** Purchase order no. (optional):



Drugs of Abuse in Hair DAH 2016 - 2017

Drugs of Abuse in Hair Proficiency Testing Scheme Application Form

For additional information and costs, please contact Customer Services by email: tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT (charged at the prevailing rate) is payable by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up to date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently after the despatch of each round.
- No refunds will be given for failure to take part in any round of the proficiency testing scheme.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- Please note that these samples are not currently within the scope of LGC Standards' UKAS accreditation.
- Please note that the prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards Proficiency Testing for the current charges.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

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Signature

Date



Drugs of Abuse in Urine DAU 2016 - 2017

Drugs of Abuse in Urine Proficiency Testing Scheme Application Form



Please complete all sections below and return to:

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany

Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com

Please tick the relevant box to indicate your required level of participation:

		Please tick one ✓
Full membership	Subscription per annum for all rounds	
Screening-only	Subscription per annum for all rounds	

Important notes regarding membership

Full membership: Full membership participants will be able to report for the screening only analytes using immunoassay type techniques and individual analytes by chromatography type techniques. Approximately 210 individual analytes are available and are managed by your PORTAL online screening profile. Participants will receive 3 freeze-dried urine samples, each with a volume of 15ml.

Screening-only: This is designed for participants who report using immunoassay type techniques, including POCT (point of care testing). Participants will receive 3 freeze-dried urine samples, each with a volume of 15ml. The screening groups are as follows:

Amphetamine screen	Barbiturate screen	Benzodiazepine screen	Buprenorphine screen	Cannabinoid screen
Cocaine screen	LSD screen	Methadone screen	Methamphetamine screen	Methaqualone screen
Opiate screen	Phencyclidine screen	Propoxyphene screen	Tricyclic screen	

Please note that it is not possible to report on individual analytes on a Screening-only membership.

For further details on the technical specification of the scheme, please refer to the DAU Scheme Description. The scheme description is available [here](#).

Sample Distribution

Round	Despatch Date	Reporting Deadline	Full membership	Screening-only
DU120	18 Apr 2016	23 May 2016	✓	✓
DU121	18 Jul 2016	22 Aug 2016	✓	✓
DU122	31 Oct 2016	05 Dec 2016	✓	✓
DU123	16 Jan 2017	20 Feb 2017	✓	✓

☒ Samples distributed in this round



Drugs of Abuse in Urine DAU 2016 - 2017

Drugs of Abuse in Urine Proficiency Testing Scheme Application Form



Reporting Thresholds

Prior to submitting your results you will be asked to configure your screening profile (**applicable to both screening and full participation**), we recommend that you only select the analytes that you are routinely screening for; any drugs that are detected which you are not routinely screening should be added/removed from your screening profile on a round by round basis.

When configuring the screening profile it's **essential** that you choose the analyte with the reporting threshold that is most appropriate to your laboratory, this will either be the clinical threshold or EWDTS threshold.

E.g. Amphetamine (Clinical threshold 1000 µg/L) or Amphetamine (EWDTS threshold 200 µg/L)

Note: Failure to choose the most appropriate threshold to your laboratory could result in your laboratory being incorrectly assessed.

Screening tests	Clinical Threshold µg/L	EWDTS Threshold µg/L	Individual analytes	Clinical Threshold µg/L	EWDTS Threshold µg/L
Amfetamines Screen	1000	500	Amfetamine Methyl-amfetamine MDMA / MDA / MDEA Other amfetamine compound	1000 1000 1000 -	200 200 200 200
Barbiturates Screen	300	200	Specific barbiturate	300	150
Cannabinoid Screen	50	50	Delta-9-THC-COOH	15	15
Cocaine and Metabolite Screen	300	150	Benzoylcegonine Cocaine	300 3000	100 -
Benzodiazepine Screen	300	200	Specific benzodiazepine (Alprazolam, Bromazepam, Clonazepam, Diazepam, Flunitrazepam, Flurazepam, Lorazepam, Lormetazepam, Midazolam, Nitrazepam, Nordiazepam, Oxazepam, Phenazepam, Temazepam)	300	100
Methadone Screen	300	300	Methadone	300	250
EDDP Screen	300	100	EDDP	300	75
Propoxyphene and Metabolite Screen	-	300	Propoxyphene or metabolites	-	300
Opiates Screen (total)	300	300	Morphine (total) 6-Monoacetylmorphine Codeine (total) Dihydrocodeine (total)	300 10 2000 2000	300 10 300 300
Buprenorphine and Metabolite Screen	5	5	Buprenorphine or Metabolites	5	2
Phencyclidine Screen	25	25	Phencyclidine	25	25
LSD and Metabolite Screen	1	1	LSD or metabolites	1	1

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:



Drugs of Abuse in Urine DAU 2016 - 2017

Drugs of Abuse in Urine Proficiency Testing Scheme Application Form



Send Report Notifications to:

*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional):

DU

Purchase order no. (optional):

For additional information and costs, please contact Customer Services by email: tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up-to-date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
- Please note that your participation will not be automatically renewed if we do not receive your order (as in previous years). Please ensure that you return this application form to LGC Standards in order to confirm your participation.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing tox.de@lgcgroup.com

Signature

Date



Drugs of Abuse in Oral Fluid DOF 2016-2017



Drugs of Abuse in Oral Fluid Proficiency Testing Scheme Application Form

Please complete all sections below and return to:

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany

Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com.

Please tick the following box to confirm your participation:

Please tick ✓

I wish to participate in the Drugs in Oral Fluid Scheme

Subscription

Please contact LGC Standards for further details.

Sample Distribution

Round	Despatch Date	Reporting Deadline
DO120	27 Jun 2016	01 Aug 2016
DO121	26 Sep 2016	31 Oct 2016
DO122	28 Nov 2016	09 Jan 2017
DO123	06 Mar 2017	10 Apr 2017

Sample Details

Participants will receive three samples at quarterly intervals with 4 weeks being allowed for drug analysis. The samples consist of 1.7ml volume of oral fluid obtained from volunteers and known drug users.

Participants report on the major misused drug groups, reporting 'detected or "not detected" to scheme thresholds.

For further details on the technical specification of the scheme, please refer to the Drugs in Oral Fluid Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:

*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional):

DO

Purchase order no. (optional):



Drugs of Abuse in Oral Fluid DOF 2016-2017



Drugs of Abuse in Oral Fluid Proficiency Testing Scheme Application Form

For additional information and costs, please contact Customer Services by email:
tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up-to-date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the proficiency testing scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
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Signature

Date



Toxicology TOX 2016 - 2017

Toxicology Proficiency Testing Scheme Application Form



Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com

Please tick the following boxes to indicate the samples in which you wish to participate:

Sample	Sample Type	Please tick ✓
SM	Quantitative - serum	
BLD	Quantitative - blood	
URN	Quantitative - urine	
CAS	Toxicology case studies	
QT	Whole blood quantitative toxicology	
TAK	Quantitative – Toxic alcohols and acetone	
GHB	Quantitative – Gammahydroxybutyrate	
BNZ	Quantitative – Benzodiazepine mix in serum	
ZMIX	Quantitative – Z-Drug mix in serum	

Sample Distribution

Round	Despatch Date	Reporting Deadline	Samples								
			SM	BLD	URN	CAS	QT	TAK	GHB	BNZ	ZMIX
TX176	11 Apr 2016	09 May 2016	✓	✓	✓		✓				
TX177	16 May 2016	13 Jun 2016	✓	✓	✓			✓	✓		
TX178	16 May 2016	27 Jun 2016				✓					
TX179	13 Jun 2016	11 Jul 2016	✓	✓	✓					✓	✓
TX180	11 Jul 2016	08 Aug 2016	✓	✓	✓		✓				
TX181	08 Aug 2016	05 Sep 2016	✓	✓	✓						
TX182	08 Aug 2016	19 Sep 2016				✓					
TX183	05 Sep 2016	03 Oct 2016	✓	✓	✓					✓	✓
TX184	10 Oct 2016	07 Nov 2016	✓	✓	✓		✓				
TX185	07 Nov 2016	05 Dec 2016	✓	✓	✓			✓	✓		
TX186	07 Nov 2016	19 Dec 2016				✓					
TX187	05 Dec 2016	09 Jan 2017	✓	✓	✓					✓	✓
TX188	16 Jan 2017	13 Feb 2017	✓	✓	✓		✓				
TX189	13 Feb 2017	13 Mar 2017	✓	✓	✓						
TX190	13 Feb 2017	27 Mar 2017				✓					
TX191	13 Mar 2017	10 Apr 2017	✓	✓	✓					✓	✓



Samples distributed in this round



Samples not available



Toxicology TOX 2016 - 2017

Toxicology Proficiency Testing Scheme Application Form



Sample Details

Sample	Sample Type	Test	Description
SM	Quantitative – serum	Ethanol; Paracetamol (Acetaminophen); Salicylic acid	3 x liquid serum samples
BLD	Quantitative – blood	Ethanol; Paracetamol (Acetaminophen); Salicylic acid; Carboxyhaemoglobin	1 x liquid blood sample
URN	Quantitative – urine	Ethanol	1 x liquid urine sample
CAS	Toxicology case studies	Participants should report results, toxicological involvement and treatment options	1 x serum sample; 1 x urine sample; scenario
QT	Whole blood quantitative toxicology	Participants should report quantitative data on specified analytes	2 x human blood samples
TAK	Quantitative – Toxic alcohols and acetone	Ethanol; Methanol; Isopropylalcohol (IPA); Ethylene Glycol; Acetone	1 x liquid blood sample
GHB	Quantitative – Gammahydroxybutyrate	Gammahydroxybutyrate	3 x lyophilised urine sample
BNZ	Quantitative – Benzodiazepine mix in serum	Diazepam, Nordazepam, Temazepam, Oxazepam and Nitrazepam	2 x 4ml samples of lyophilised human serum
ZMIX	Quantitative – Z-Drug mix in serum	Zopiclone, Zaleplon and Zolpidem	2 x 4ml samples of lyophilised human serum

For further details on the technical specification of the scheme, please refer to the TOX Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
<div></div>	

Returning customer Lab ID (optional):

TX

Purchase order no. (optional):



Toxicology TOX 2016 - 2017

Toxicology Proficiency Testing Scheme Application Form



For additional information and costs, please contact Customer Services by email: tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples and techniques

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up-to-date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
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- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.
-

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Signature

Date



Cosmetics & Toiletries

COSMETICS 2016 - 2017

Cosmetics and Toiletries Proficiency Testing Scheme Application Form



Please complete all the relevant sections of the application form indicating the samples required and return to:

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany

Tel: +49 (0)281 9887 250, Fax: +49 (0)281 9887 259, Email: grm.de@lgcgroup.com

Round	Despatch Date	Reporting Deadline	Samples														
			10A	10B	13A	13B	16A	16B	19	20	21	22	23	24*	25*	26* TRIAL	27* TRIAL
CS022	23 May 2016	17 Jun 2016															
CS023	22 Aug 2016	16 Sep 2016															
CS024	21 Nov 2016	16 Dec 2016															
CS025	13 Feb 2017	10 Mar 2017															

*Please note that these materials are not currently included in our UKAS scope of accreditation. The trial samples 26 and 27 will be run subject to the registration of a sufficient number of participants.

1	Please indicate the number of samples required in the relevant boxes above
	Not available

Microbiology Samples

Sample	Microbiological Test(s)	Presentation
10A	Detection and/or enumeration of aerobic mesophilic bacteria; Detection and/or enumeration of <i>Staphylococcus aureus</i> Enumeration of Enterobacteriaceae Detection of <i>Escherichia coli</i>	1 x 10g powder sample plus 10mL vial
10B	Enumeration of yeast and mould (total count) Detection of <i>Candida albicans</i> ; Detection of <i>Burkholderia cepacia</i> Detection and/or enumeration of <i>Pseudomonas aeruginosa</i>	1 x 10g powder sample plus 10mL vial
13A	Detection and/or enumeration of aerobic mesophilic bacteria; Detection and/or enumeration of <i>Staphylococcus aureus</i> Enumeration of Enterobacteriaceae Detection of <i>Escherichia coli</i>	1 x 10g cream sample plus 10mL vial
13B	Enumeration of yeast and mould (total count) Detection of <i>Candida albicans</i> ; Detection of <i>Burkholderia cepacia</i> Detection and/or enumeration of <i>Pseudomonas aeruginosa</i>	1 x 10g cream sample plus 10mL vial
16A	Detection and/or enumeration of aerobic mesophilic bacteria; Detection and/or enumeration of <i>Staphylococcus aureus</i> Enumeration of Enterobacteriaceae Detection of <i>Escherichia coli</i>	1 x 10mL liquid sample plus 10mL vial
16B	Enumeration of yeast and mould (total count); Detection of <i>Candida albicans</i> ; Detection of <i>Burkholderia cepacia</i> Detection and/or enumeration of <i>Pseudomonas aeruginosa</i>	1 x 10mL liquid sample plus 10mL vial

Please see overleaf for details of Chemistry samples.



Cosmetics & Toiletries

COSMETICS 2016 - 2017

Cosmetics and Toiletries Proficiency Testing Scheme Application Form



Chemistry samples

Sample	Target Analyte(s)	Presentation
19	Cadmium; Chromium; Lead; Nickel; Arsenic**, Mercury**	5g Lipstick
20	Cadmium; Chromium; Lead; Nickel; Arsenic**, Mercury**	5g Lip gloss
21	Cadmium; Chromium; Lead; Nickel; Arsenic**, Mercury**	5g Powder sample
22	Hydroquinone	5mL Cream sample
23	pH; Viscosity; Density	250mL Liquid cosmetic sample
24	Antimony; Arsenic; Barium; Copper; Fluoride; Mercury; Selenium; Zinc	125mL Mouthwash sample
25	Antimony; Arsenic; Barium; Copper; Fluoride; Mercury; Selenium; Zinc	25g Toothpaste sample
26** TRIAL	SPF <i>in vitro</i>	25mL Cream sample
NEW 27** TRIAL	Preservatives: Methylparaben; Propylparaben; Butylparaben; Benzoic acid; Sorbic acid	25mL Cream sample

**These analytes and samples are not included in LGC's UKAS scope of accreditation

For details on the full technical specification of the scheme, please refer to the COSMETICS Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
<div></div>	

Returning customer Lab ID (optional): Purchase order no. (optional):

For additional information and costs, please contact Customer Services by email: grm.de@lgcgroup.com or by telephone: +49 (0)281 9887 250.

Please note: Due to the German Protection Against Infection Act (IfSG) from 2000, your order of microbiological samples cannot be processed until we receive the completed customer declaration form concerning the confirmation of compliance with the applicable laws of your country.



Cosmetics & Toiletries

COSMETICS 2016 - 2017

Cosmetics and Toiletries Proficiency Testing Scheme Application Form



Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up-to-date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently after the despatch of the round.
- No refunds will be given for failure to take part in any round of the proficiency testing scheme.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- Please note that the prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

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Signature

Date



Pharmaceutical PHARMASSURE 2016 - 2017

Pharmaceutical Analysis Proficiency Testing Scheme Application Form



Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany,
 Tel: +49 (0)281 9887 270, Fax: +49 (0)281 9887 279, Email: pharma.de@lgcgroup.com.

			Samples														
Round	Despatch Date	Reporting Deadline	1 Must take all rounds	2A	2B*	NEW 2E * TRIAL	3	4A	4B	5	6			7A *	7B *	8A *	8B *
PH057	06 Jun 2016	04 Jul 2016									6A	6B	6C				
PH058	05 Sep 2016	03 Oct 2016									6D	6E					
PH059	28 Nov 2016	09 Jan 2017									6F	6G	6H				
PH060	06 Mar 2017	03 Apr 2017									6I	6J					

*Please note that the samples 2B, 2E, 7A, 7B, 8A, and 8B are not currently within the scope of LGC Standards' accreditation. The trial sample 2E will be run subject to the registration of a sufficient number of participants.

1

Not available

Please indicate the number of samples required in the relevant boxes above.

Chemistry samples

Sample		Sample Type / Target Analyte(s)	Presentation
1		Basic Chemical Testing	6 samples 1A-1F (varying volumes)
2A		HPLC Analysis	1 sample and reference standard (format will vary from round to round)
2B		Trace elements	5g sample; 1g matrix
NEW 2E TRIAL		Residual solvents	2g sample; 1ml spike
Formerly sample 2	6A	Gas Chromatography (GC)	Sample and reference standard**
	6B	UV	1 sample**
	6C	Viscosity	250ml sample
	6D	Loss on Drying (LOD)	1 sample**
	6E	FTIR	Sample and reference
	6F	Karl Fischer	1 sample**
	6G	TLC	Sample, reference standard and TLC plates**
	6H	FLAA	60ml sample
	6I	Polarimetry	1 sample**
	6J	Advanced Titration	1 sample**
Formerly sample 2C	7A	Dissolution testing	1 sample
	7B	Tablet testing	1 sample
Formerly sample 2D	8A	Low level conductivity (<50 µS/cm)	125ml sample
	8B	Particulate determination	1 sample

**Format depends upon type of test material.

Please see overleaf for details of Microbiology samples.

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
 Tel: +49 (0)281 9887 270, Fax: +49 (0)281 9887 279,
 Email: pharma.de@lgcgroup.com, Web: www.lgcstandards.com



Pharmaceutical PHARMASSURE 2016 - 2017

Pharmaceutical Analysis Proficiency Testing Scheme Application Form



Microbiology samples

Sample		Microbiological Test(s)	Presentation
3		Low-level enumeration; Identification of microorganism (Intended for membrane filtration)	1 x 10mL vial (final volume 1mL identification only or 100mL identification & enumeration)
Formerly sample 4	4A	Enumeration of Total aerobic microbial count; Enumeration of Total bacterial count Detection and/or Enumeration of <i>Staphylococcus aureus</i> ; Detection and/or Enumeration of <i>Escherichia coli</i> ; Detection and/or Enumeration of Bile-tolerant gram- negative bacteria	1 x 10mL vial (final volume 100mL)
	4B	Detection of <i>Pseudomonas aeruginosa</i> Enumeration of Yeast; Enumeration of Mould; Enumeration of Total yeast and mould Enumeration and/or detection of <i>Candida albicans</i>	1 x 10mL vial (final volume 100mL)
5		Sterility; Identification of microorganism	5 x 5mL vials (final volume 100mL)

For details on the full technical specification of the scheme please refer to the PHARMASSURE Scheme Description. The schemes description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
<div></div>	<div></div>

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
<div></div>	

Returning customer Lab ID (optional):	<div>PH</div>	Purchase order no. (optional):	<div></div>
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Pharmaceutical PHARMASSURE 2016 - 2017

Pharmaceutical Analysis Proficiency Testing Scheme Application Form



For additional information and costs, please contact Customer Services by email:
pharma.de@lgcgroup.com or by telephone: +49 (0)281 9887 270.

Please Note: Due to the German Protection Against Infection Act (IfSG) in effect from 2000, your order for microbial samples cannot be processed until we receive the completed form confirming compliance with the applicable laws of your country.

Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT (charged at the prevailing rate) is payable by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. If you would like a guide as to these charges, please contact LGC Standards.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular parameter in each round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing pharma.de@lgcgroup.com

Signature

Date



Forensic Blood Toxicology QUARTZ 2016 - 2017

Forensic Blood Toxicology Proficiency Testing Scheme Application Form



Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
 Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com.

Please tick the following boxes to indicate the samples in which you wish to participate:

Sample	Sample Type	Please tick ✓
1 & 2	Forensic Toxicology	
3	Abuse and Prescribed drug quantification	
4	Blood alcohol quantification	
5**	Alcohol Technical Defence	
6**	New Psychoactive Substances (NPS) quantification	
NEW 7**	Synthetic cannabinoid sample: Identification	
NEW 8	Toxicology drugs/metabolites in urine: Identification	

*Please note that P&P per despatch is charged separately. Please contact LGC Standards Proficiency Testing for further details.

**Please note that samples 5, 6 and 7 are not currently within the scope of LGC Standards' accreditation.

Sample Distribution

Round	Despatch Date	Reporting Deadline	Samples							
			1	2	3	4	5	6	NEW 7	NEW 8
QZ065	06 Jun 2016	22 Jul 2016	✓	✓	✓			✓	✓	✓
QZ066	19 Sep 2016	04 Nov 2016	✓	✓	✓	✓	✓			
QZ067	28 Nov 2016	13 Jan 2017	✓	✓	✓			✓	✓	✓
QZ068	06 Mar 2017	21 Apr 2017	✓	✓	✓	✓	✓			

☒ Sample distributed in this round ☐ Sample not available

Forensic Toxicology

Sample	Sample Type	Test	Description
1	Identification	Identification of unknown drug or drugs	10ml blood matrix
2	Quantification and Case Study	Quantification of a known drug (full identity or generic classification) and interpretation of the results in respect to the case study provided	10ml blood matrix
3	Abuse / Prescribed drug quantification	Quantification of commonly encountered drugs (alternate rounds of prescription drugs and drugs of abuse).	10ml blood matrix
6	New Psychoactive Substance (NPS) quantification	Participants are asked to quantify a range (up to 4) of new psychoactive substances (NPS)	10ml blood matrix
NEW 7	Synthetic cannabinoid sample: Identification	Participants are asked to screen for synthetic cannabinoids and identify one of the most common synthetic cannabinoids.	10ml blood matrix
NEW 8	Toxicology drugs/metabolites in urine: Identification	Participants are asked to identify up to 4 drugs or metabolites relevant to forensic toxicology.	10ml urine

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Forensic Blood Toxicology QUARTZ 2016 - 2017

Forensic Blood Toxicology Proficiency Testing Scheme Application Form



Driving Impairment

Sample	Sample Type	Test	Description
4	Blood alcohol quantification	Quantification of alcohol and fluoride in a blood sample	10 ml blood matrix
5	Alcohol Technical Defence	Interpretation of a case study (with analytical data, and a scenario or witness statement) to determine the potential blood alcohol level at a given time	Paper exercise

For details on the full technical specification of the scheme, please refer to the QUARTZ Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional):	QZ	Purchase order no. (optional):	
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For additional information and costs, please contact Customer Services by email: tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples

For additional samples, please state clearly your requirements below.

--



Forensic Blood Toxicology QUARTZ 2016 - 2017

Forensic Blood Toxicology Proficiency Testing Scheme Application Form



Please note:

- All prices stated are exclusive of VAT and carriage.
- VAT is payable (at the prevailing rate) by all participants based in the European Union if a VAT Registration Number is not provided.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up-to-date charges.
- All courier charges set by LGC Standards do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the proficiency testing scheme or for cancellation of rounds that have already been invoiced.
- LGC Standards reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Standards cannot guarantee the number of participants that will return results for any particular round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting). If alternative data entry or reporting methods are required, further charges apply. Please contact LGC Standards for the current charges.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services.

LGC Standards would like to be able to contact you from time to time with information about the LGC Group, its activities, products and services. By completing and returning this form to us, you agree to your personal information being used by LGC Standards and other members of the LGC Group for the administration and provision of our products and services and for related marketing activities. You can change your marketing preferences at any time by emailing tox.de@lgcgroup.com

Signature

Date



Forensic Analysis of Explosives FAE 2016

Forensic Analysis for Explosives Proficiency Testing Scheme Application Form



Please complete all sections below and return to:

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany,

Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279, Email: tox.de@lgcgroup.com.

Please tick the following box to confirm your participation in the Explosives PT scheme:

Samples	Please tick ✓
FAE PT scheme (ID1, ID2 and BLK)	

Sample Distribution

			Samples		
Round	Despatch Date	Reporting Deadline	ID1	ID2	BLK
FA003	23 May 2016	27 June 2016		✓	

☒ Sample distributed

Sample Details

Sample	Description	Presentation
ID1	An explosive analyte for identification purposes.	1 x 5 millilitres of methanolic solution
ID2	An explosive analyte for identification purposes.	1 x 5 millilitres of methanolic solution
BLK	A vial containing 5 millilitres of solvent that may be used as a blank. This batch of solvent was used in the production of samples ID1 and ID2.	1 x 5 millilitres of solvent

For details on the full technical specification of the scheme please refer to the Explosives Scheme Description. The scheme description is available [here](#).

Please fill in your address details below:

Send Test Materials to:	Send Invoices to:

Send Report Notifications to:	*An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

Returning customer Lab ID (optional): Purchase order no. (optional):



V1

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Email: tox.de@lgcgroup.com, Web: www.lgcstandards.com



Forensic Analysis of Explosives FAE 2016

Forensic Analysis for Explosives Proficiency Testing Scheme Application Form



For additional information and costs, please contact Customer Services by email:
tox.de@lgcgroup.com or by telephone: +49 (0)281 9887 280.

Extra samples

For additional samples, please state clearly your requirements below.

Please note:

- All prices stated are exclusive of VAT and carriage.
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- Participants will pay an additional fee to cover courier charges. Please contact LGC Standards for up to date charges.
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Signature

Date



V1

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
Tel: +49 (0)281 9887 280, Fax: +49 (0)281 9887 279,
Email: tox.de@lgcgroup.com, Web: www.lgcstandards.com



1. Customers in Germany

Any work or contact with pathogenic micro-organisms, or with substances containing pathogenic microorganisms, is regulated by the German Protection Against Infection Act (Infektionsschutzgesetz - IfSG).

According to § 52 of this law, disease causing organisms, as well as substances containing disease causing organisms, may only be supplied to such persons who have a permit according to § 44 of the IfSG; who work under supervision of somebody in possession of a permit; or who do not require a permit according to § 45, sections 1, 2, 3 of the IfSG. This regulation does not apply to state owned medical or veterinary institutions.

Microbiological materials distributed by LGC Standards might contain microorganisms with a biosafety level (BSL) of 1 or 2. These materials contain microorganisms in natural concentrations only.

All customers who order products with the biosafety levels 1 or 2 are therefore formally requested to submit a copy of their permit to work with disease causing organisms according to § 44 of the IfSG, or send us a written statement confirming that they do not need a permit according to § 45 of the IfSG.

- ☐ Copy of the permit to work with disease causing organisms according to §44 of the IfSG enclosed.
- ☐ This permit not required according to § 45 of the IfSG.

Name in print:.....

Company:.....

Signature:.....

Date:.....

2. Customers abroad

With this customer declaration, all customers confirm that in using the materials belonging to the biosafety levels 1 and/or 2, they are complying with applicable laws and regulations.

- ☐ Confirmation of compliance with the applicable laws of

Country:

Name in print:.....

Company:.....

Signature:.....

Date:.....

3. Further information

Please visit <http://www.bmg.bund.de> for further information.
<http://www.gesetze-im-internet.de/bundesrecht/ifsg/gesamt.pdf>

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



PROFICIENCY TESTING PROVIDER
No. 0001

LGC Limited

is accredited in accordance with the recognised International standard ISO/IEC 17043:2010 - Conformity assessment - General requirements for proficiency testing

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate.

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
4 July 2002

This certificate issued on
30 August 2013

UKAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2009) and operates under a Memorandum of Understanding (MoU) with the Department for Business, Innovation and Skills (BIS).

Please note, not all schemes and samples are part of the UKAS accreditation.

LGC Standards proficiency tests

Food and feed PT schemes

AFPS	Chemical and microbiological analysis of animal feed
QCS	Chemical and microbiological analysis of chocolate and cocoa powder
QDCS	Chemical analysis of dairy products
QFCS	Chemical analysis of food products and standard solutions
QGS	Chemical and microbiological analysis of gelatine
QMAS	Chemical and microbiological analysis of meat, fish and shellfish
QMS	Microbiological analysis of food and food ingredients



Environment and water PT schemes

AIR PT	Analysis of workplace air, ambient air, indoor / chamber air and stack emissions
AQUACHECK	Chemical analysis of waters, agricultural soils and sludges
CONTEST	Analysis of contaminated land
HYGIENE*	Workplace environmental monitoring of surfaces
QWAS	Microbiological analysis of waters and effluent sludge



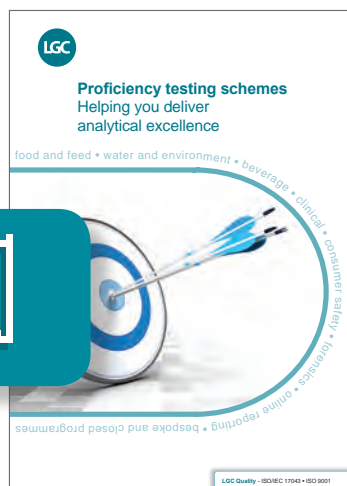
Beverage PT schemes

BAPS	Chemical, microbiological and sensory analysis of beer
DAPS	Chemical analysis of alcoholic and distilled beverages
MAPS	Chemical and physical analysis of malted barley and barley used in brewing and distilling
QBS	Chemical and microbiological analysis of soft drinks and fruit juices
SUPS	Chemical and microbiological analysis of sugar and natural sweeteners



* Currently not included in our scope of accreditation.

Please find the
LGC Proficiency Testing
catalogue here:



Clinical PT schemes

DAH*	Drugs of abuse in hair
DAU	Drugs of abuse in urine
DOF	Drugs in oral fluid
TDM	Quantification of therapeutic drugs in blood, plasma, serum and urine
ASI**	Immunosuppressive drugs
TOX	Clinical toxicology analysis in blood, serum, urine, and case studies



Consumer safety PT schemes

COSMETICS	Chemical and microbiological analysis of cosmetics and toiletries products
NiMS	Determination of Nickel release against EN 1811 (2011)
PHARMASSURE	Chemical and microbiological analysis of pharmaceutical products, instrument techniques and sterility testing
TOYTEST	Assessment of toys, paper exercises and solutions against European EN 71 and American F963 toy safety standards



Forensic PT schemes

FAE	Forensic analysis for explosives
FIRMS	Forensic isotope ratio mass spectrometry
QUARTZ	Forensic toxicological analysis of drugs and alcohol in blood



Industrial PT schemes

OIL PT*	Chemical analysis of oils, fuels and lubricants
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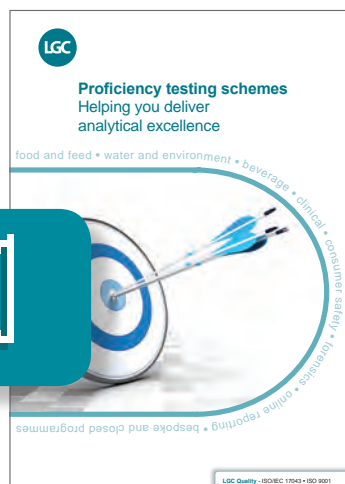
Other products

DCALS*	Dairy calibration test materials
easi-tab™	Quantitative microbiological reference materials

* Currently not included in our scope of accreditation.

**This scheme is managed and operated by ASI Ltd and is not included in LGC Standards' UKAS scope of accreditation. The scheme complements the LGC TDM scheme and participants may order the scheme through LGC Standards.

Please find the
LGC Proficiency Testing
catalogue here:



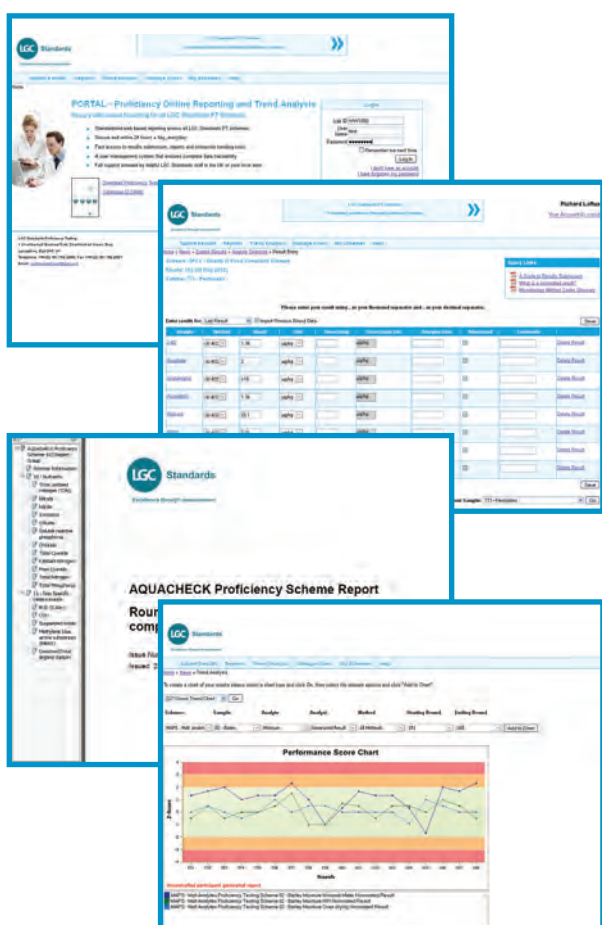
PORTAL

Proficiency Online Reporting Trend AnaLysis

PORTAL is a secure web based reporting system available to all participants of LGC Standards PT schemes. It provides an online area from which you can quickly access all of your PT data, including results submission PDF reports, data export and performance trending tools.

Benefits include:

- Easy access to your PT data – 24 hours a day
- Online results submission
- Complete data traceability
- Fully secure website with encrypted databases
- Free support provided by staff based in the UK or your local area
- Multi-method reporting complete with methodology summaries
- Multi-analyst reporting
- Multiple password protected user accounts per laboratory
- Results submission by analyte or sample
- Intelligent importing of previously entered data
- Full control of all data prior to deadlines
- Customisable performance trends



www.lgcpt.com/portal

For further information contact: **LGC Standards Proficiency Testing**

LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany.

Tel +49 (0)281 9887 250 **Fax** +49 (0)281 9887 259

Email grm.de@lgcgroup.com **Web** www.lgcstandards.com

For further information, or if you require substances or materials not currently listed please contact one of our local sales offices.

Brazil

Tel: +55 12 3302 5880
Email: bz@lgcstandards.com

Bulgaria

Tel: +359 (0)2 971 4955
Email: bg@lgcstandards.com

China

Tel: +86 (10) 56315129
Email: infochina@lgcgroup.com

France

Tel: +33 (0)3 88 04 82 82
Email: fr@lgcstandards.com

Germany

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Email: de@lgcstandards.com

Hungary

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Email: de@lgcstandards.com

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