

The AIR proficiency testing scheme includes a number of sample for workplace air, ambient air and emissions. The following form contains the calendar of rounds followed by descriptions of the samples and prices.

Please complete all sections below and return to:
LGC Standards GmbH, Mercatorstr. 51, 46485 Wesel, Germany
Tel: +49 (0)281 9887 210, Fax: +49 (0)281 9887 699, E-Mail: axiopt.de@lgcgroup.com

Returning customer Lab
ID:

Purchase order no.:
(compulsory)

YOUR ORDER

If you would like to renew your order as per your previous year's order, please tick this box:

RENEW ME AS LAST YEAR

☐

We will copy over the samples/rounds purchased by you in the previous year and send you an order confirmation for your review. If you would like to add any other samples to your order, please mark them accordingly on the subsequent pages. If you would prefer to place a different/new order for this scheme year, please review the samples available on subsequent pages and indicate the number of samples required for each sample/round accordingly.

SCHEDULE OVERVIEW

Month	Round	Despatch Date	Reporting Deadline	Samples Available
JAN	AR062	15 Jan 2024	19 Feb 2024	01, 1A, 1B, 2X, 2F, 2I, 05, 06, 07, 08, 09, 11, 12, 12A, 14, 18, 21, 32, 33, 36, 37, 38
APR	AR063	29 Apr 2024	03 Jun 2024	01, 1B, 1C, 05, 06, 07, 08, 11, 12, 13, 22, 31, 33, 34, 35, 38, 39
JUL	AR065	29 Jul 2024	02 Sep 2024	01, 1A, 1B, 2X, 2F, 2I, 05, 06, 07, 08, 09, 10B, 11, 12, 12A, 14, 18, 21, 32, 33, 36, 37, 38
JUN	AR064	17 Jun 2024	07 Oct 2024	03, 04, 17, 40
OCT	AR066	28 Oct 2024	02 Dec 2024	01, 1B, 1C, 05, 06, 07, 08, 10A, 11, 12, 13, 16, 22, 31, 33, 34, 35, 38, 39
NOV	AR067	18 Nov 2024	17 Mar 2025	03, 04, 17, 40

Please ensure that LGC receive your order as soon as possible in order to avoid stock shortages. Please note that orders received the week prior to the despatch date may be subject to a despatch delay. The despatch date shown above is the date the sample will leave our site in the UK. Please note, this is not the date the samples will arrive at your laboratory. Delivery times vary based on country, if you require further information, please contact LGC.

Sample PT-AR-18 is subject to UK export control and as such, we require a licence to ship. Please ensure your order is placed 6 weeks prior to the despatch date to allow sufficient time to apply for a license. LGC will contact you with further information once the order is placed.

SAMPLE AVAILABILITY – PLEASE SEE PAGE 1 FOR SPECIFIC DESPATCH AND REPORTING DATES

Please indicate the number of samples required per round in the grid. If you require a sample in all available rounds, please complete the **ALL** column.

Please note: Where a footnote symbol (* | # | ^ | †) appears in a column, the footnote description text may appear at the end of a table that may span across multiple pages. Please scroll to the end of the table for these details.

Workplace Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-01 - Metals	4 x spiked membrane filters 25mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese#; Nickel; Lead; Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PT-AR-01-A * - Metals	4 x spiked cassette capsules 37mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PT-AR-01-B * - Metals	4 x spiked cassette capsules 37mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PT-AR-01-C * - Metals	4 x spiked Zefon DIS filter inserts 25mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PT-AR-02 - (2X) Direct Measurement of Quartz by XRD	3 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by XRD (by direct analysis of filters supplied)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PT-AR-02-FTIR - (2F) Direct Measurement of Quartz by FTIR	3 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by FTIR (by direct analysis of filters supplied)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Workplace Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-02I – (2I) Indirect Measurement of Quartz by XRD or FTIR	3 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by either XRD or FTIR (by indirect analysis, i.e. by ashing and redeposition onto analytical filter or by KBr disc)	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-03 – Dust	4 x spiked glass fibre filters 25mm Ø ^	Dust by gravimetry (mass of solids)	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>
PT-AR-04 – Dust	4 x spiked glass fibre filters 37mm Ø ^	Dust by gravimetry (mass of solids)	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>
PT-AR-05 – VOCs	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)	Benzene; Toluene; Xylene; Ethyl benzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-06 – VOCs	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)	1,1,1-Trichloroethane; n-Hexane; n-Butyl acetate; Tetrachloroethene; Trichloroethylene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-07 – VOCs	4 x spiked Tenax thermal desorption tubes (workplace air levels)	Benzene; Toluene; Xylene; Ethyl benzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-08 – Aldehydes	4 x spiked glass fibre filters 25mm Ø	Formaldehyde; Acetaldehyde	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-09 – Cr (VI)	4 x spiked NaOH treated Millipore PVDF filters 25mm Ø	Chromium (VI)	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		

Workplace Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-10A * - Metals	1 x bulk welding fume sample	Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Zinc	<input type="checkbox"/>					<input type="checkbox"/>	
PT-AR-10B * - Lead	1 x bulk lead-containing dust sample	Lead	<input type="checkbox"/>				<input type="checkbox"/>		
PT-AR-16 * - Diesel fume	4 x dynamically loaded quartz fibre filters 25mm Ø	Elemental carbon	<input type="checkbox"/>					<input type="checkbox"/>	
PT-AR-18 * - Beryllium	4 x spiked mixed cellulose ester filter 37mm Ø	Beryllium	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		

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

#These analytes are not currently included in LGC's UKAS scope of accreditation.

^For the Dust Filter Samples (3, 4, 17 and 40), filters are despatched to participants in order for them to weigh and then should be returned to LGC AXIO PT (Bury, UK) for spiking. LGC AXIO PT then re-send the spiked filters back to the participants for reweighing. For further details, please see the Dust Filter Samples Distribution Schedule at the end of the Sample Availability Grid section.

†20% discount available when purchasing all rounds per sample (for samples with more than one round available).

Ambient Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-11 - NO2	4 x dynamically loaded Palmes type diffusion tubes	Nitrogen dioxide (as nitrite)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-12 - VOCs	4 x dynamically loaded Tenax thermal desorption tubes (ambient air levels)	Benzene; Toluene; Xylene; Ethyl benzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Ambient Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-12A.* - VOCs	4 x dynamically loaded Carbopack thermal desorption tubes (ambient air levels)	Benzene; Toluene; Xylene; Ethyl benzene	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-13* - Metals	4 x spiked quartz fibre filters 47mm Ø	Antimony; Arsenic, Cadmium; Nickel; Lead	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	
PT-AR-14 - Anions on filters	4 x spiked quartz fibre filters 47mm Ø	Chloride; Nitrate, Sulfate	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-17* - Dust	4 x spiked quartz fibre filters 47mm Ø [^]	Dust by gravimetry (mass of solids)	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>

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[†]20% discount available when purchasing all rounds per sample (for samples with more than one round available).

Indoor/Chamber Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-21 - VOCs (Material Emission Testing)	4 x dynamically loaded Tenax thermal desorption tubes at chamber air levels	Benzene; n-Hexane; Toluene; Butyl acetate; MIBK; p-Xylene; Diacetyl [#] ; Phenol; 124-TMB; Limonene; 4-PCH; Dodecane; Styrene	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		

Indoor/Chamber Air			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-22 - VOCs (Qualitative determination)	2 x dynamically loaded Tenax thermal desorption tubes at chamber air levels	Qualitative determination of VOCs including alcohol, aliphatic, aromatic, ester, halocarbon and terpene compounds	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	

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†20% discount available when purchasing all rounds per sample (for samples with more than one round available).

Stack Emissions			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-31 - Mercury	1 x potassium permanganate & sulfuric acid impinger solution containing mercury	Volume; Mercury	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	
PT-AR-32 - Mercury	1 x potassium dichromate & nitric acid impinger solution containing mercury	Volume; Mercury	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-33 - Metals	1 x nitric acid impinger solution containing up to 6 trace metals	AR062 – Volume, Sb, Cd, Co, Mn, Se#, V AR063 – Volume, As, Cr, Cu, Pb, Ni, Tl AR065 – Volume, Sb, Cd, Co, Mn, Ni, V AR066 – Volume, As, Cr, Cu, Pb, Se#, Tl	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-34 - Sulfur dioxide	1 x hydrogen peroxide impinger solution containing SO ₂	Volume; Sulfur dioxide	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	

Stack Emissions			Round and Month (AR)						
Sample	Supplied As	Target Analytes	ALL	JAN 062	APR 063	JUN 064	JUL 065	OCT 066	NOV 067
PT-AR-35 – Hydrogen fluoride	1 x sodium hydroxide impinger solution containing HF	Volume; Hydrogen fluoride	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	
PT-AR-36 – Hydrogen chloride	1 x aqueous impinger solution containing hydrogen chloride	Volume; Hydrogen chloride	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-37 – Ammonia	1 x sulfuric acid impinger solution containing ammonia	Volume; Ammonia	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		
PT-AR-38* – Metals	1 x quartz filter spiked with up to 6 trace elements and fly ash 47mm Ø	AR062 – As, Cr, Cu, Pb, Ni, V AR063 – Sb, Cd, Co, Mn, Se, Tl AR065 – As, Cr, Cu, Pb, Ni, Tl AR066 – Sb, Cd, Co, Mn, Se, V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PT-AR-39* – Dust analysis (solution)	1 x rinsing solution containing dissolved and suspended solids	Total solids	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	
PT-AR-40 – Dust analysis (filter)	4 x spiked quartz filters 47mm Ø ^	Dust analysis (mass of solids)	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>

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^For the Dust Filter Samples (3, 4, 17 and 40), filters are despatched to participants in order for them to weigh and then should be returned to LGC AXIO PT (Bury, UK) for spiking. LGC AXIO PT then re-send the spiked filters back to the participants for reweighing. For further details, please see the Dust Filter Samples Distribution Schedule at the end of the Sample Availability Grid section.

†20% discount available when purchasing all rounds per sample (for samples with more than one round available).

Dust Filter Samples (3, 4, 17 and 40) Distribution Schedule

For the dust filter samples (3, 4, 17 and 40), filters are despatched to participants in order for them to weigh. Participants then ship the filters back to LGC AXIO PT (Bury, UK) for spiking. LGC AXIO PT re-send the spiked filters back to the participants for reweighing who then report the results (initial value; reweighing value; calculated difference) to LGC AXIO PT 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
AR064	17 Jun 2024	22 Jul 2024	27 Aug 2024	07 Oct 2024
AR067	18 Nov 2024	06 Jan 2025	10 Feb 2025	17 Mar 2025

For details on the full technical specification of the scheme, please refer to the AIR Scheme Description.

YOUR DETAILS

Returning customers, if you would like to keep your contact/address details as per previous year, please tick here:

☐

If changes are required or you are a new customer, please complete your details below:

Send Test Materials to:	Send Invoices to:
Contact name: <input type="text"/>	Contact name: <input type="text"/>
Department: <input type="text"/>	Department: <input type="text"/>
Company: <input type="text"/>	Company: <input type="text"/>
Address: <input type="text"/>	Address: <input type="text"/>
<input type="text"/>	<input type="text"/>
Town/City: <input type="text"/>	Town/City: <input type="text"/>
County: <input type="text"/>	County: <input type="text"/>
Post/Zip Code: <input type="text"/>	Post/Zip Code: <input type="text"/>
Country: <input type="text"/>	Country: <input type="text"/>
Tel: <input type="text"/>	Tel: <input type="text"/>
E-mail: <input type="text"/>	E-mail: <input type="text"/>
<input type="text"/>	VAT no: <input type="text"/>

Existing customers

If you would like to change your marketing preferences, please visit our [preference centre](#) or contact axiopt.de@lgcgroup.com

New customers

LGC would like to contact you by email, phone or post about its products, services and related areas or research. LGC does not sell contact details to external parties. You may unsubscribe at any time.

- ☐ Yes, I am happy to be contacted about LGC's products, services and research
- ☐ No, I do not require marketing information about LGC's products and services at this time

By sending in this application form, you are agreeing to comply by LGC's Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services and are agreeing that you have read and agree to the 'General Notes' at the end of this document.

Name

Date

REPEAT/ADDITIONAL SAMPLES PRICES

Repeat/Duplicate samples	Price per sample
7, 12, 12A, 21 and 22	Full Price
3, 4, 17 and 40	Repeat samples are not available for the dust filters. Additional samples can be purchased at full price.
1, 1A, 1B, 1C, 2X, 2F, 2I, 5, 6, 8, 9, 10A, 10B, 11, 13, 14, 16, 18, 31-39	These samples will be charged at 50% of the main sample cost. Please contact LGC for a quotation.

CARRIAGE CHARGES

Participants will pay an additional fee to cover courier charges. Please contact LGC AXIO Proficiency Testing for up-to-date charges.

CHANGES AND OTHER SCHEMES/SAMPLES OF INTEREST

CHANGES

We have reduced the number of filters for samples PT-AR-02 (Direct Measurement of Quartz) and PT-AR-02I (Indirect Measurement of Quartz) from 4 filters to 3 filters.

We have reduced the frequency of the below samples from four to two rounds per year:

- PT-AR-01A (Metals)
- PT-AR-01C (Metals)
- PT-AR-21 (VOC's)

Due to low participation numbers, we have removed the below sample:

- PT-AR-19 (Chromium (VI) in Fume/Dust)

OTHER SCHEMES/SAMPLES OF INTEREST

We have a number of other Water and Environment schemes available which may be of interest to you. Further details can be found on our [Water and Environment schemes web page](#).

We also have a sample which may be of interest to you PT-HY-09 (TVC; Yeast and Mould on air filter). Further information can be found on our [PT-HY-09 web page](#).

GENERAL NOTES

Please note:

- This scheme is managed and operated by LGC AXIO Proficiency Testing and is supported through technical advice from HSE. 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, 5mm ID and 90mm long).
- Thermal desorption tubes must be returned at the participant's cost to LGC proficiency testing within 2 months after receipt (including additional or repeat samples). Failure to do so will result in an additional charge of £270 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 charges.



- VAT (charged at the prevailing rate) is payable by all participants based in the UK.
- Participants will pay an additional fee to cover courier charges. Please contact LGC AXIO Proficiency Testing for up-to-date charges (where not specified previously in the application form).
- All courier charges set by LGC AXIO Proficiency Testing 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 PT scheme.
- LGC AXIO 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 AXIO Proficiency Testing 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).
- Enrolment in AIR PT for samples 7, 8 and 12 only for those laboratories joining via AIHA Industrial Hygiene Proficiency Analytical Testing (IHPAT) program requires agreement on behalf of these participants that the results report shall be released to AIHA Laboratory Accreditation Programs (AIHA-LAP) for accreditation purposes.
- Enrolment in AIR PT by UK laboratories for sample 11 (does not apply to other samples) requires agreement on behalf of these participants that summary performance shall be released to the UK Department, Food and Rural Affairs (DEFRA) and subsequently published on the DEFRA Local Air Quality Management (AQM) website. Please note that this summary information published on the website lists those UK laboratories participating in the AIR PT for sample 11, and provides a percentage of satisfactory performance scores achieved in recent rounds. Participant lab numbers or actual performance scores remain strictly confidential and are not disclosed to DEFRA.
- Surplus PT samples (Quality Control Material) are available; please contact LGC AXIO Proficiency Testing for further information.
- By submitting this application form, you are agreeing to comply by LGC's Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services and the AIR PT scheme specific requirements noted above.

LGC AXIO PT – INTERNAL USE ONLY

Name	
Customer	
Site	
Currency	
Address ID	
PO no	
Carriage	

Renew ALY	
Year for PY	
Dt	
Doc Text	
Quotation	
Other	
Additional	