

# PROFICIENCY TESTING SCHEME

Annual Programme 2018



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**Vienna, October 2017**

## PROFICIENCY TESTING PROGRAMME 2018

Interlaboratory comparison plays an important part in the adaptation, standardisation and validation of measurement techniques, as well as in the assessment of laboratories and the production of reference materials. Accredited laboratories also need it as proof of their analytical competence.

The testing laboratory for environmental, GMO and fuel analysis at the Environment Agency Austria (Umweltbundesamt GmbH) offers different interlaboratory comparisons which will take place during 2018. This will give you the opportunity to have your measurements verified by an external quality control programme.

The main facts of the process are:

- All interlaboratory comparisons are performed according to the specifications of OENORM EN ISO/IEC 17043.
- You will receive samples from us. These samples will be analysed in your laboratory.
- Your results will be submitted electronically by entering the test data online.
- DIN ISO 5725-2 and ISO 13528 will be used as the basis for the statistical analysis.
- The so-called “z score” will be used as assessment criterion for participant performance.
- You will receive a final report with the results of all participating laboratories in an aggregated and anonymised form. You will also receive a certificate of participation.

For any further questions please do not hesitate to contact us:

[ringversuche@umweltbundesamt.at](mailto:ringversuche@umweltbundesamt.at)

## HOW TO PARTICIPATE?

Choose the test you need. In our catalogue you will find proficiency tests performed either by the Umweltbundesamt GmbH or in cooperation with IFA-Tulln, a department of the University of Natural Resources and Life Sciences, Vienna and one of our partner laboratories.

If the registration form is submitted electronically (link on page 15) you will receive a confirmation e-mail containing all the relevant information.

Once you have paid the participation fee your registration will be completed and you will receive the samples as specified in our catalogue.

***Here is a list of all proficiency tests which will be performed in 2018:***

<b>Programme</b>	<b>Matrices</b>	<b>Page</b>
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Sum parameters: Hydrocarbon oil index and Phenol index	Water	13
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CHC (Chlorinated hydrocarbons)	Ambient Air	18
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All proficiency tests in water (page 4 to 14) are handled by our partner IFA-Tulln.

All other proficiency tests (waste, product, ambient air) are processed by the Umweltbundesamt GmbH. We are obliged to charge VAT and reverse charge is applicable.

The prices stated are exclusive of 20 % VAT and shipment costs.

Description of Programme	
No M140	Metals and trace elements
List of substances:	Al, As, Pb, Cd, Cr, Fe, Cu, Mn, Ni, Hg, Se, U, Zn
Matrix:	Natural water
Samples:	2; 1 ground water sample, 1 surface water sample (partly fortified)
Sample dispatch:	06 February 2018
Closing date:	06 March 2018
Cost:	EUR 320,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Al, As, Pb, Cd, Cr, Fe, Cu, Mn, Ni, Hg, Se, U, Zn	275 ml	1	Plastic container	yes, with HNO <sub>3</sub>	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Additional proficiency tests (synthetic samples) performed by our partner IFA-Tulln (registration [www.ifatest.eu](http://www.ifatest.eu)). Cost: EUR 320,-; M142 with additional substances EUR 350,-.

		Sample dispatch	Closing date
No M141	Metals and trace elements	05 March 2018	03 April 2018
No M142	Metals and trace elements (additionally Ag, Ba, Ce, Co, Li, Mo, Sb, Sn, V)	04 June 2018	29 June 2018
No M143	Metals and trace elements	03 September 2018	28 September 2018
No M144	Metals and trace elements	05 November 2018	30 November 2018

Description of Programme	
No N140	Nutrients/major ions
List of substances:	Total hardness, alkalinity, electrical conductivity (25°C), $\text{HCO}_3^-$ , $\text{Ca}^{2+}$ , $\text{Mg}^{2+}$ , $\text{Na}^+$ , $\text{K}^+$ , $\text{NO}_3^-$ , $\text{NO}_2^-$ , $\text{NH}_4^+$ , $\text{Cl}^-$ , $\text{SO}_4^{2-}$ , $\text{o-PO}_4^{3-}$ , B, DOC, total-P (dissolved, as $\text{PO}_4^{3-}$ ); pH, total-N (N140 only)
Matrix:	Natural water
Samples:	2; 1 ground water sample, 1 surface water sample (partly fortified)
Sample dispatch:	06 February 2018
Closing date:	06 March 2018
Cost:	EUR 320,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Total hardness, alkalinity, electrical conductivity (25°C), $\text{HCO}_3^-$ , $\text{Ca}^{2+}$ , $\text{Mg}^{2+}$ , $\text{Na}^+$ , $\text{K}^+$ , $\text{NO}_3^-$ , $\text{NO}_2^-$ , $\text{NH}_4^+$ , $\text{Cl}^-$ , $\text{SO}_4^{2-}$ , $\text{o-PO}_4^{3-}$ , B, DOC, total-P (dissolved) and pH, total-N (N140 only)	500 ml	2	Plastic container	no	yes

Recommended period to start the sample treatment: For DOC, $\text{NO}_2^-$ , $\text{NH}_4^+$ , $\text{o-PO}_4^{3-}$ and pH we recommend analysis as quickly as possible after receipt of the samples.	$D_0 + 8$
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$D_0$ : Day the samples are sent to all participants (mostly Tuesdays)

Additional proficiency tests (synthetic samples) performed by our partner IFA-Tulln (registration [www.ifatest.eu](http://www.ifatest.eu)). Cost: EUR 320,-.

		Sample dispatch	Closing date
No N141	Nutrients/major ions (additionally total-Si (dissolved) and fluorid)	05 March 2018	03 April 2018
No N142	Nutrients/major ions (additionally $\text{KMnO}_4$ -index (as $\text{O}_2$ ) acc. to EN ISO 8467 (H5))	04 Juni 2018	29 Juni 2018
No N143	Nutrients/major ions (additionally easily liberatable cyanide acc. to DIN 38405-D13 (ISO 14403-2:2012;ISO 6703-2:1984))	03 September 2018	28 September 2018
No N144	Nutrients/major ions (additionally $\text{KMnO}_4$ -index (as $\text{O}_2$ ) acc. to EN ISO 8467 (H5))	05 November 2018	30 November 2018

**New 2018:** the proficiency test N140 (nutrients in real samples) additionally contains the determination of the pH-value. The range of the proficiency test N141 is extended by the element fluoride.

Description of Programme	
No H100	Herbicides / pesticides
List of substances:	2,6-Dichlorobenzamide, Alachlor, Atrazine, Atrazine-desethyl, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Bromacil, Chloridazon, Chloridazon-desphenyl, Chloridazon-methyl-desphenyl, Clopyralid, Cyanazine, Dimethenamide, Diuron, Metolachlor, N,N-Dimethylsulfamide (DMS), Nicosulfurone, Prometryn, Propazine, Sebuthylazine, Simazine, Terbutylazine, Terbutylazine-desethyl, Terbutryn
Matrix:	Natural water
Samples:	2; 1 ground water, 1 surface water
Sample dispatch:	27 February 2018
Closing date:	10 April 2018
Cost:	EUR 380,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
2,6-Dichlorobenzamide, Alachlor, Atrazine, Atrazine-desethyl, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Bromacil, Chloridazon, Chloridazon-desphenyl, Chloridazon-methyl-desphenyl, Clopyralid, Cyanazine, Dimethenamide, Diuron, Metolachlor, N,N-Dimethylsulfamide (DMS), Nicosulfurone, Prometryn, Propazine, Sebuthylazine, Simazine, Terbutylazine, Terbutylazine-desethyl, Terbutryn	300 ml or 1000 ml	2  2 or 4	Aluminium-container	no	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Description of Programme	
No H101	Herbicides / pesticides
List of substances:	2,4,5-Trichlorophenoxyacetic acid, 2,4-D (2,4-Dichlorophenoxyacetic acid), Alachlor, Alachlor-t-acid (Alachlor-OA), Alachlor-t-sulfonic acid (Alachlor-ESA), Aminomethylphosphonic acid (AMPA), Bentazone, Dicamba, Dichlorprop, Glufosinate, Glyphosate, Mecoprop, Metazachlor, Metazachlor oxanilic acid (Metazachlor-OA), Metazachlor ethane sulfonic acid (Metazachlor-ESA), Metolachlor, s-Metolachlor oxanilic acid (Metolachlor-OA), s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)
Matrix:	Natural water
Samples:	2; 1 ground water, 1 surface water
Sample dispatch:	12 June 2018
Closing date:	17 July 2018
Cost:	EUR 380,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
2,4,5-Trichlorophenoxyacetic acid, 2,4-D (2,4-Dichlorophenoxyacetic acid), Alachlor, Alachlor-t-acid (Alachlor-OA), Alachlor-t-sulfonic acid (Alachlor-ESA), Aminomethylphosphonic acid (AMPA), Bentazone, Dicamba, Dichlorprop, Glufosinate, Glyphosate, Mecoprop, Metazachlor, Metazachlor oxanilic acid (Metazachlor-OA), Metazachlor ethane sulfonic acid (Metazachlor-ESA), Metolachlor, s-Metolachlor oxanilic acid (Metolachlor-OA), s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	300 ml or 1000 ml	2  2 or 4	Aluminium- Container	no	yes
	and 1000 ml	1	and plastics (AMPA, Glufosinate, Glyphosate)		

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Description of Programme	
No H102	Herbicides / pesticides
List of substances:	Acetamiprid, Aldrin, Atrazine, Atrazine-desethyl, Atrazine-desisopropyl, Bromacil, Chlordane, Clothianidin, Cyanazine, DDD, DDE, DDT, Dieldrin, Dinotefurane, Endosulfan, Endrin, Heptachlor, Imidacloprid, Lindane, Nitenpyram, Prometryn, Propazine, Thiacloprid, Thiamethoxam
Matrix:	Natural water
Samples:	1 ground water, 1 synthetic water (partly fortified)
Sample dispatch:	16 October 2018
Closing date:	20 November 2018
Cost:	EUR 380,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Acetamiprid, Aldrin, Atrazine, Atrazine-desethyl, Atrazine-desisopropyl, Bromacil, Chlordane, Clothianidin, Cyanazine, DDD, DDE, DDT, Dieldrin, Dinotefurane, Endosulfan, Endrin, Heptachlor, Imidacloprid, Lindane, Nitenpyram, Prometryn, Propazine, Thiacloprid, Thiamethoxam	300 ml or 1000 ml	2  2 or 4	Aluminium-container	no	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*



Description of Programme	
No PM02	Pesticides in accordance with the Drinking Water Ordinance
List of substances:	<p><b>Pesticides:</b> 2,4-D (2,4-Dichlorophenoxyacetic acid), 2,4-DP (Dichlorprop), Alachlor, Aldrin, Atrazine, Azoxystrobin, Bentazone, Bromacil, Chloridazon, Clopyralid, Clothianidin, Dicamba, Dieldrin, Dimethachlor, Dimethenamid-P, Diuron, Ethofumesate, Flufenacet, Glufosinate, Glyphosate, Heptachlor, Heptachlorepoxyde, Hexazinone, Imidacloprid, Iodosulfuron-methyl, Isoproturon, MCPA, MCPB, MCPP (Mecoprop), Mesosulfuron-methyl, Metalaxyl-M, Metamitron, Metazachlor, Metolachlor, Metribuzin, Metsulfuron-methyl, Nicosulfuron, Pethoxamid, Propazine, Propiconazole, Simazine, Terbutylazine, Thiachloprid, Thiamethoxam, Thifensulfuron-methyl, Tolyfluanid, Tribenuron-methyl, Triclopyr, Triflurosulfuronmethyl, Tritosulfuron</p> <p><b>Relevant metabolites:</b> 2-Amino-4-methoxy-6-methyl-1,3,5-triazine, 3,5,6-Trichloro-2-pyridinol, 6-Chloro-1,3,5-Triazine-2,4-Diamine (Atrazine-desethyl-desisopropyl), Atrazine-desethyl, Atrazine-desisopropyl, Dimethachlor Metabolite CGA 369873, Dimethachlor Metabolite CGA 373464 (acetic acid methyl ester), Dimethachlor Metabolite CGA 373464 (free acid), Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA), Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA), Isoproturon-desmethyl, Propazine-2-hydroxy, Terbutylazine-2-hydroxy, Terbutylazine-2-hydroxy-desethyl, Terbutylazine-desethyl</p> <p><b>Non-relevant metabolites:</b> 2,6-Dichlorobenzamide, Alachlor-t-acid (Alachlor-OA), Alachlor-t-sulfonic acid (Alachlor-ESA), Aminomethylphosphonic acid (AMPA), Atrazine-2-hydroxy, Azoxystrobin-O-demethyl (CyPM), Chloridazon-desphenyl, Chloridazon-methyl-desphenyl, Dimethenamid-P-acid (Dimethenamid-OA), Dimethenamid-P-sulfonic acid (Dimethenamid-ESA), Flufenacet oxanilic acid (Flufenacet-OA), Flufenacet sulfonic acid (Flufenacet-ESA), Metazachlor oxanilic acid (Metazachlor-OA), Metazachlor ethane sulfonic acid (Metazachlor-ESA), Metribuzin-Desamino, N,N-Dimethylsulfamide (DMS), s-Metolachlor Metabolite CGA 368208, s-Metolachlor Metabolite NOA 413173, s-Metolachlor oxanilic acid (Metolachlor-OA), s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)</p>
Matrix:	Water
Samples:	2; drinking water (spiked)
Sample dispatch:	11 September 2018
Closing date:	16 October 2018
Cost:	EUR 520,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
All mentioned groups of substances at page 9: <b>Pesticides</b> <b>Relevant metabolites</b> <b>Non-relevant metabolites</b>	1000 ml	2 or 4	Aluminium-container	no	yes
		1 or 2	and plastic container for AMPA, Glyphosate, Glufosinate		

Note: Each pesticide/metabolite is present in at least one sample (concentration: range 1/4 up to 10-fold of parameter value/ action value for metabolites acc. to codex chapter B1/drinking water, Annex 9 of the Austrian Food Code).

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Description of Programme	
No P19	Polycyclic aromatic hydrocarbons (PAH)
List of substances:	Naphthalene, Acenaphthene, Acenaphthylene, Fluorene, Anthracene, Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenzo(ah)anthracene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene
Matrix:	Natural water
Samples:	2; 1 synthetic water (fortified), 1 ground water
Sample dispatch:	17 April 2018
Closing date:	15 May 2018
Cost:	EUR 380,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Naphthalene, Acenaphthene, Acenaphthylene, Fluorene, Anthracene, Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenzo(ah)anthracene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene	1000 ml	2	Glass	no	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 2
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Description of Programme	
No AZ5	Pharmaceuticals, industrial chemicals and artificial sweeteners
List of substances:	4-Acetylaminoantipyrine, Amidotrizoic acid, Atenolol, Bisoprolol, Carbamazepine, Diazepam, Diclofenac, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, 4-Formylaminoantipyrine, Ibuprofen, Iopamidol, Metoprolol, Sotalol, Sulfamethoxazole, Benzotriazole, Acesulfame, Cyclamate, Saccharin, Sucralose
Matrix:	Natural water
Samples:	2; 1 municipal waste water, 1 surface water
Sample dispatch:	20 March 2018
Closing date:	17 April 2018
Cost:	EUR 380,-

Technical Information					
Parameter to analyse	Bottles/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
4-Acetylaminoantipyrine, Amidotrizoic acid, Atenolol, Bisoprolol, Carbamazepine, Diazepam, Diclofenac, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, 4-Formylaminoantipyrine, Ibuprofen, Iopamidol, Metoprolol, Sotalol, Sulfamethoxazole, Benzotriazole, Acesulfame, Cyclamate, Saccharin, Sucralose	1000 ml	2	Aluminium-container	yes (approx. 10 mg Sodium azide)	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

**New 2018:** We additionally offer you to our present range the determination of following substances without extra cost: 4-Acetylaminoantipyrine, Amidotrizoic acid, Atenolol, Bisoprolol, 10,11-Dihydro-10,11-Dihydroxycarbamazepine, 4-Formylaminoantipyrine, Iopamidol.

Description of Programme	
No SP03	Sum parameters
List of sum parameters:	Hydrocarbon oil index and phenol index Optional: only hydrocarbon oil index possible
Matrix:	Natural water
Samples:	2; 1 synthetic water (fortified), 1 ground water
Sample dispatch:	15 May 2018
Closing date:	12 June 2018
Cost:	EUR 325,- (for hydrocarbon oil index and phenol index) EUR 200,- (for hydrocarbon oil index only)

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Hydrocarbon oil index	1000 ml	2	Glass	no	yes
Phenol index	1000 ml	2	Glass	yes, pH < 4 with H <sub>3</sub> PO <sub>4</sub>	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 2
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

In SP03, the extent of participation is selectable (hydrocarbon oil index and phenol index or hydrocarbon oil index only; selection of phenol index only is not possible). Evaluation of SP03 will be carried out in a joint report.

Description of Programme	
No C59	Volatile halogenated hydrocarbons (VHH)
List of substances:	VHH: Bromodichloromethane, Dibromochloromethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, Tetrachloroethene, Tetrachloromethane, Tribromomethane, 1,1,1-Trichloroethane, Trichloroethene, Trichloromethane;
Matrix:	Natural water
Samples:	2; 1 surface water, 1 ground water (partly fortified)
Sample dispatch:	05 June 2018
Closing date:	03 July 2018
Cost:	EUR 350,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
VHH: Bromodichloromethane, Dibromochloromethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, Tetrachloroethene, Tetrachloromethane, Tribromomethane, 1,1,1-Trichloroethane, Trichloroethene, Trichloromethane;	600 ml	1	Aluminium-container	no	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

New 2018: The determination of VHH or BTEX&MTBE in real water samples will be performed in an alternating modus, starting in 2018 with the analysis of VHH. In 2019 we will offer you the determination of BTEX&MTBE in real water samples.

Additional proficiency tests (synthetic samples) performed by our partner IFA-Tulln (registration [www.ifatest.eu](http://www.ifatest.eu)). The single price for VHH or BTEX/MTBE is EUR 350,-. The price for VHH and BTEX/MTBE is EUR 620,-.

		Sample dispatch	Closing date
No C58	Volatile halogenated hydrocarbons (VHH)	12 February 2018	09 March 2018
No CB05	Volatile halogenated hydrocarbons (VHH) and/or BTEX/MTBE BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, sum of m-Xylene and p-Xylene; Methyl tertiary-butyl ether (MTBE)	08 October 2018	06 November 2018

In round CB05 the extent of participation is selectable (VHH, BTEX&MTBE or both). Evaluation of the round will be carried out in a joint report.

Description of Programme	
No AB05	Waste acc to landfill directive (Austria) (eluate metals only)
List of substances:	<u>eluate:</u> Al, Sb, As, Ba, Pb, B, Cd, Cr, Co, Fe, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn
Matrix:	Waste
Samples:	1 eluate sample
Sample dispatch:	18 September 2018
Closing date:	16 October 2018
Cost excl. VAT:	EUR 410,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<u>eluate:</u> Al, Sb, As, Ba, Pb, B, Cd, Cr, Co, Fe, Cu, Mo, Ni, Hg, Se, Ag, V, Zn, Sn	250 ml	1	plastic container	yes	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)

Description of Programme	
No AB06	Waste acc to landfill directive (Austria) (eluate ions only)
List of substances:	<u>eluate:</u> pH, electrical conductivity, evaporation residue, NH <sub>4</sub> (as N), Cl, F, NO <sub>3</sub> (as N), NO <sub>2</sub> (as N), PO <sub>4</sub> (as P), SO <sub>4</sub> , TOC (as C)
Matrix:	Waste
Samples:	1 eluate sample
Sample dispatch:	18 September 2018
Closing date:	16 October 2018
Cost excl. VAT:	EUR 410,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
<u>eluate:</u> pH, electrical conductivity, evaporation residue, NH <sub>4</sub> (as N), Cl, F, NO <sub>3</sub> (as N), NO <sub>2</sub> (as N), PO <sub>4</sub> (as P), SO <sub>4</sub> , TOC (as C)	250 ml	1	plastic container	no yes (TOC)	yes

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)



Description of Programme	
No S02	24 elements acc. to ICH Q3D
List of substances:	Cd, Pb, As, Hg, Co, V, Ni, Tl, Au, Pd, Ir, Os, Rh, Ru, Se, Ag, Pt, Li, Sb, Ba, Mo, Cu, Sn, Cr
Matrix:	pharmaceutical product
Samples:	1 homogenized solid sample or liquid
Sample dispatch:	06 November 2018
Closing date:	04 December 2018
Cost excl. VAT:	EUR 320,-

Technical Information					
Parameter to analyse	Bottle/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Cd, Pb, As, Hg, Co, V, Ni, Tl, Au, Pd, Ir, Os, Rh, Ru, Se, Ag, Pt, Li, Sb, Ba, Mo, Cu, Sn, Cr	approx. 2 g/2 ml	1	plastic container	no	no

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Description of Programme	
No CL05	Chlorinated hydrocarbons (CHC)
List of substances:	Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichlorethene, trans-1,2-Dichlorethene
Matrix:	Ambient air
Samples:	1 (+ 1 unloaded tube)
Sample dispatch:	23 October 2018
Closing date:	20 November 2018
Cost excl. VAT:	EUR 410,-

Technical Information					
Parameter to analyse	Tubes/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichlorethene, trans-1,2-Dichlorethene	-	1	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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Description of Program	
No BL06	BTEX & C5-C10
List of substances:	BTEX: Benzene, Toluene, Ethylbenzene, sum of m-Xylene and p-Xylene, o-Xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane
Matrix:	Ambient air
Samples:	1 (+ 1 unloaded tube)
Sample dispatch:	23 October 2018
Closing date:	20 November 2018
Cost excl. VAT:	EUR 410,-

Technical Information					
Parameter to analyse	Tubes/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
BTEX: Benzene, Toluene, Ethyl-benzene, sum of m-Xylene and p-Xylene, o-Xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane	-	1	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)

Description of Programme	
No CBL04	Chlorinated hydrocarbons (CHC) and BTEX & C5-C10
List of substances:	CHC: Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene; BTEX: Benzene, Toluene, Ethylbenzene, sum of m-Xylene and p-Xylene, o-Xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane
Matrix:	Ambient air
Samples:	2 (+ 1 unloaded tube)
Sample dispatch:	23 October 2018
Closing date:	20 November 2018
Cost excl. VAT:	EUR 715,-

Technical Information					
Parameter to analyse	Tubes/sample			Stabilisation	Refrigeration
	Volume	Number	Type		
CHC: Trichloromethane, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloromethane, Tetrachloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene; BTEX: Benzene, Toluene, Ethylbenzene, sum of m-xylene and p-xylene, o-xylene; C5-C10: n-Pentane, n-Hexane, n-Heptane, n-Octane, n-Nonane, n-Decane	-	1	activated charcoal tube (Orbo 32 S, Supelco)	no	no

Recommended period to start the sample treatment:	D <sub>0</sub> + 8
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*D<sub>0</sub>: Day the samples are sent to all participants (mostly Tuesdays)*

Electronic registration: [www.umweltbundesamt.at/interlaboratory-comparison-test](http://www.umweltbundesamt.at/interlaboratory-comparison-test)