

#### Organisation

University of Natural Resources  
and Life Sciences, Vienna,  
Department of Agrobiotechnology,  
IFA-Tulln, Center for Analytical Chemistry,  
Konrad-Lorenz-Str. 20, 3430 Tulln, Austria  
in cooperation with  
Umweltbundesamt GmbH,  
Environment Agency Austria,  
Spittelauer Lände 5, 1090 Vienna, Austria

#### Information

- **Synthetic water samples**

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- **Natural water samples  
(ground, surface or waste water)**

Umweltbundesamt GmbH,  
Environment Agency Austria  
Dr. Sandra Kulcsar  
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www.umweltbundesamt.at/ringversuche

#### We offer

- Interlaboratory comparisons with **synthetic water samples** at concentration levels similar to natural samples.
- Interlaboratory comparisons with **natural samples** (ground, surface and waste water), main focus on environmentally active organic compounds.
- Comprehensive quality assurance and permanent improvement guarantee the high quality of our PT scheme.
- Quick data evaluation. Our reports are clear and anonymous. All participants will receive written confirmation of their participation with z-scores.
- Every PT round is based on two water samples with different concentrations.
- Target values are available on **www.ifatest.eu** shortly after the closing date for each PT round.
- **All reports are freely accessible** via internet.

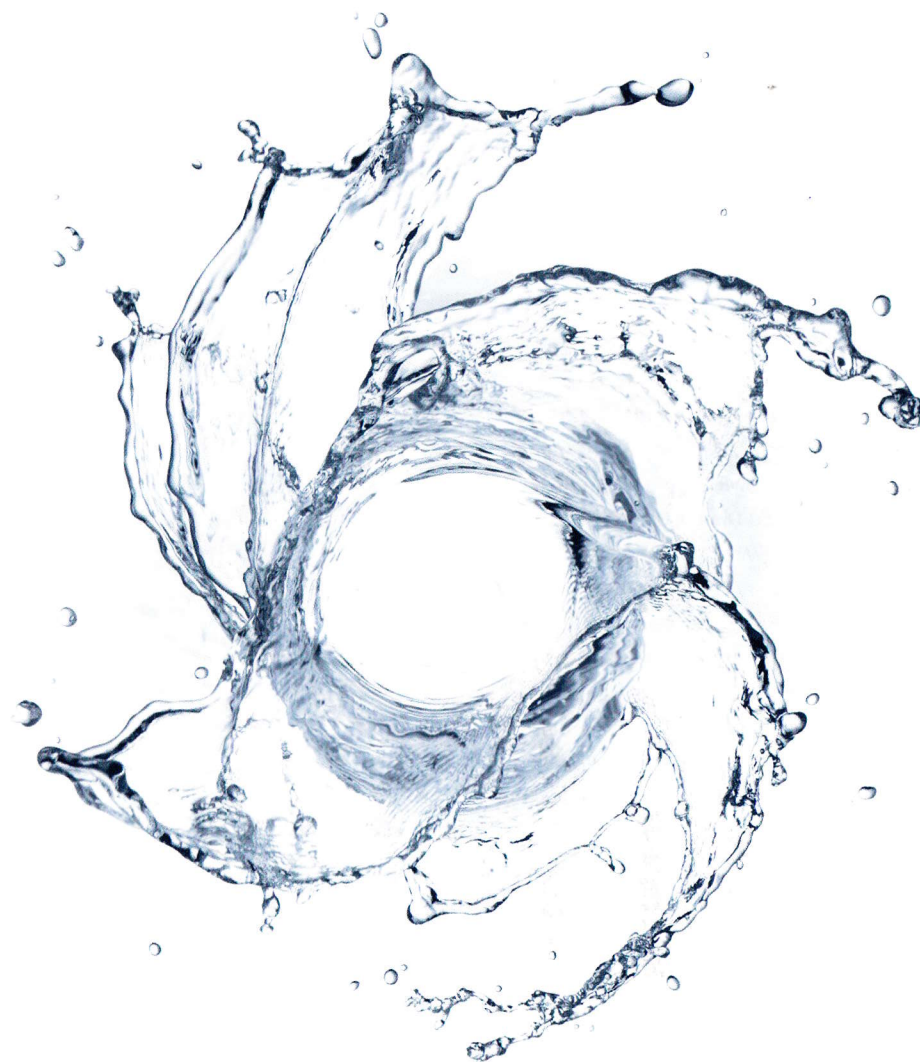
#### The Instrument of External Water Quality Assurance in Water Analysis

- The IFA Proficiency Testing Scheme is operated in cooperation with Umweltbundesamt GmbH, Environment Agency Austria.
- Our interlaboratory comparisons are part of the national Austrian ground and surface water monitoring programme (GZÜV 2006 i.g.F.)
- To date more than 700 testing laboratories from 30 countries have participated in our interlaboratory comparisons.



umweltbundesamt<sup>U</sup>  
ENVIRONMENT AGENCY AUSTRIA

## Proficiency Testing Scheme for Water Analysis 2017



### Nutrients/Major Ions

- 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), (total-N, easily liberatable cyanide,  $\text{KMnO}_4$ -index and total Si)

Dispatch:

- N135 07.02.2017 (natural samples + total-N)  
N136 06.03.2017 (synth. samples +  $\text{KMnO}_4$ -index and Si)  
N137 29.05.2017 (synth. samples)  
N138 04.09.2017 (synth. samples + CN)  
N139 20.11.2017 (synth. samples +  $\text{KMnO}_4$ -index)

### Metals and Trace Elements

- Al, As, Pb, Cd, Cr, Fe, Cu, Mn, Ni, Hg, Se, U, Zn (Ag, Ba, Ce, Co, Li, Mo, Sb, Sn, V)

- M135 07.02.2017 (natural samples)  
M136 06.03.2017 (synth. samples)  
M137 29.05.2017 (synth. samples + Ag etc.)  
M138 04.09.2017 (synth. samples)  
M139 20.11.2017 (synth. samples)

### Pharmaceuticals, Industrial Chemicals and Artificial Sweeteners

- Diclofenac, Carbamazepine, Benzotriazole, Sulfamethoxazole, Acesulfame, Sucralose, Diazepam, Ibuprofen, Metoprolol, Sotalol, Cyclamate, Saccharin

- AZ4 09.05.2017 (natural samples)

### Herbicides/Pesticides

- Atrazine, Desethylatrazine, Desisopropylatrazine, Simazine, Terbutylazine, Sebuthylazine, Desethylterbutylazine, Terbutryn, Desethyl-desisopropylatrazine, 2,6-Dichlorobenzamide, Chloridazon, Desphenylchloridazon, Methyl-desphenylchloridazon, Diuron, Dimethylsulfamide (DMSA), Clopyralid, Metolachlor, Alachlor, Cyanazine, Prometryn, Propazine, Bromacil, Dimethenamide, Nicosulfurone
- Bentazone, Metolachlor, Metolachlor ESA, Metolachlor OA, Alachlor, Alachlor ESA, Alachlor OA, Metazachlor, Metazachlor ESA, Metazachlor OA, 2,4-D, Dicamba, Mecoprop, Dichlorprop, 2,4,5-Trichlorophenoxyacetic acid, Glyphosate, AMPA, Glufosinate
- Aldrin, Chlordane, Dieldrin, Endrin, Endosulfan, Heptachlor, DDT, DDE, DDD, Lindane, Cyanazine, Prometryn, Propazine, Bromacil, Acetamidrid, Clothianidin, Dinotefurane, Imidacloprid, Nitenpyram, Thiachloprid, Thiamethoxam, Atrazine, Desethylatrazine, Desisopropylatrazine

- H97 28.02.2017 (natural samples)  
H98 13.06.2017 (natural samples)  
H99 17.10.2017 (natural samples)

### Polycyclic Aromatic Hydrocarbons

- 16 EPA PAH

Dispatch:

- P18 25.04.2017 (natural samples)

### Volatile Halogenated Hydrocarbons (VHH), BTEX and MTBE

- 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; BTEX: Benzene, Toluene, Ethylbenzene, o-Xylene, sum of m-Xylene and p-Xylene; Methyl-tert-butylether (MTBE)

- C57 03.04.2017 (synth. samples, VHH)  
CB03 27.06.2017 (natural samples, VHH and/or BTEX/MTBE)  
CB04 02.10.2017 (synth. samples, VHH and/or BTEX/MTBE)

### Sum parameters

- Hydrocarbon oil index and Phenol index optional: Hydrocarbon oil index only

- SP02 30.05.2017  
(natural samples)

### Registration for all PT rounds

- Caroline Stadlmann  
Tel.: +43 (0)1 47654-97306, Fax: -97309  
caroline.stadlmann@boku.ac.at
- Online-Registration: [www.ifatest.eu](http://www.ifatest.eu)  
Minimum 15 participants





## Price list 2017

The following prices refer to participation in **one round** in the year 2017. The University of Natural Resources and Life Sciences, Vienna, is exempt from VAT and will not charge VAT. Please refer to the table below for the delivery charges. For participants from Switzerland and Liechtenstein, customs charges may have to be paid by the recipient in the destination country.

Parameter group	Samples	Volume per sample	Participation fee per round in €	Shipment costs Europe in €	
				A	B
Major ions <sup>(1)</sup>	2	2 * 500 mL	305,-	40,-	85,-
Metals <sup>(1, 2)</sup>	2	1 * 275 mL	305,- 335,- <sup>(2)</sup>	40,-	85,-
Volatile halogenated hydrocarbons (VOC) <sup>(3)</sup>	2	1 * 600 mL	335,-	40,-	85,-
BTEX and MTBE <sup>(3)</sup>	2	1 * 600 mL	335,-	40,-	85,-
VOC, BTEX and MTBE <sup>(3)</sup>	2 + 2	1 * 600 mL	590,-	40,-	85,-
Herbicides and Pesticides <sup>(4)</sup>	2	2 * 300 mL 2 * 1 L 4 * 1 L <sup>(4)</sup>	360,-	40,- 40,- 80,-	85,- 85,- 170,-
PAH <sup>(5)</sup>	2	2 * 1 L	360,-	120,-	255,-
Hydrocarbon oil index <sup>(5, 6)</sup>	2	2 * 1 L	190,-	120,-	255,-
Hydrocarbon oil index and Phenol index <sup>(5, 6)</sup>	2 + 2	2 * 1 L	310,-	160,-	340,-
Pharmaceuticals, Industrial chemicals and Artificial sweeteners	2	2 * 1 L	360,-	40,-	85,-

Additional service	Price	Shipment costs
Trial sample A or B (synthetic) of former PT round on availability, table with reference concentrations included	80,-	see above

**Europe A:** Belgium, Croatia, Czech Republic, France, Germany, Hungary, Italy, Luxembourg, Slovakia, Slovenia and The Netherlands

**Europe B:** all other European countries like Switzerland, Liechtenstein, Finland, Spain, Portugal, Sweden etc.

- (1) These shipment costs will be charged only once, when the interlaboratory comparison samples for major ions and metals can be sent together in one parcel.
- (2) The higher price refers to round M137 with additional parameters.
- (3) In round CB03 and round CB04 the extent of participation is selectable (VOC, BTEX&MTBE or both). Evaluation of the round will be carried out in a joint report.
- (4) The listed sample volumes are available. Shipment costs are higher for 4 \* 1 L.
- (5) 24 hours delivery service is necessary for PAH, hydrocarbon oil index and phenol index samples.
- (6) In round SP02 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 SP02 will be carried out in a joint report.

Please note that your data will be passed on to Umweltbundesamt GmbH (Environment Agency Austria) when you register for an interlaboratory comparison with natural samples.

**Invoice:**

After registration (online at [www.ifatest.eu](http://www.ifatest.eu) or by Fax) you will get a confirmation e-mail specifying all your relevant data incl. sample dispatch and treatment dates and the costs for participating in the PT rounds.

For each order a collective invoice will be prepared which can also be sent to you by e-mail upon request (e-invoicing). Participation in the PT rounds is only possible after payment of the invoice amount has been received. You can contact us if you wish to receive individual (partial) invoices for the PT rounds. If you have any questions about this, please do not hesitate to contact Ms Marianne Trauner, Tel.: +43(0)1 47654 97003; e-mail: [marianne.trauner@boku.ac.at](mailto:marianne.trauner@boku.ac.at)

**Evaluation:**

Participants will receive a written confirmation of participation where the z-scores criteria (s), the achieved z scores and the recoveries are set out in tabular form.

All reports will be made available as pdf files on [www.ifatest.eu](http://www.ifatest.eu) from where they can be downloaded and printed.