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European Proficiency Testing Scheme “Short chain chloroparaffins – SCCPs (C10-C13 chloroalkanes) in surface water”

Bipea and his european partners (PTWFD network: www.pt-wfd.eu) are launching a Proficiency Testing Scheme “Short chain chloroparaffins – SCCPs (C10-C13 chloroalkanes) in surface water” in order to check the chemical analysis of priority and other substances in the context of chemical monitoring for the European Water Framework Directive (WFD), especially for compliance of surface waters with Environmental Quality Standards (EQS). This PTS will be prepared by a central organizer partner of Bipea. In order to offer you the best service during this PTS, we will proceed to registration, to the shipment of the samples and the collect of the results.

Parameters :

| Parameters | AA-EQS [$\mu\text{g/l}$] (inland surface water) |
|--|---|
| C ₁₀ -C ₁₃ Chloroalkanes | 0.4 |

AA: Annual Average

This parameter is taken from annex A (priority substances) of the “Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on environmental quality standards in the field of water policy and Amending Directive 2000/60/EC”.

This directive sets Environmental Quality Standards (EQS) for different substances. The allowed annual average – EQS (AA-EQS) for the above mentioned parameter in inland surface waters is given in the table above.

Matrix :

Natural river water sieved at 2 mm to avoid large particulate matter.

Samples

Sample preparation

Spiked natural river water samples and “ready to analyse” will be used as PT samples. 3 batches of C10-C13 chloroalkanes with different chlorine contents will be prepared.

Sample containers

1000 ml glass bottles.

Sample conservation

Cooling and darkness during transport and storage.

Samples per participant

Each participant receives **two** bottles of each batch, i.e. in total 6 bottles.

One measurement per bottle is carried out under repeatability conditions, which will enable to estimate the repeatability of participants' results.

Samples distribution

Samples will be sent by express courier service.

Limit of quantification

The analytical method should fulfil (wherever possible) the following limit of quantification:

| Parameters | LOQ [$\mu\text{g/l}$] |
|--|-------------------------|
| C ₁₀ -C ₁₃ Chloroalcanes | 0.12 |

The LOQ requirement is based on the requirements of article 4 of the "Draft commission directive of the European communities for the technical specification for chemical analysis and monitoring of water status in the context of the water framework directive". The limit corresponds to 30% of the environmental quality standards (EQS) of the directive 2008/105/EG on environmental quality standards in the field of water policy.

Evaluation

Assigned values

The statistical evaluation of the PT will be done by AGLAE. It will be carried out using Algorithm A mean from ISO 13528 for calculation of the mean. The consensus mean is used as assigned value (X).

Standard deviation for proficiency assessment (SDPA)

The standard deviation for proficiency assessment (SDPA) is calculated in compliance with the requirements of the PT-WFD network: $SDPA = 0.25 * X$.

Assessment

For each measurement value x, a z-score is calculated from the assigned value X and SDPA according to following formula:

$$z = \frac{(x - X)}{SDPA}$$

The assessment of the results is as follows:

| | | | |
|-------|---------|-------|-----------------------|
| | z-score | ≤ 2.0 | Satisfactory result |
| 2.0 < | z-score | < 3.0 | Questionable result |
| | z-score | ≥ 3.0 | Unsatisfactory result |

Reporting

The final report will be provided in English.

Dates and deadlines

Application deadline 31st August 2010.

1. Dispatch of the samples: 24th November 2010
2. Deadline for results: 7th January 2011

Participation fee

The participation fee will be **425 euros** plus VAT where applicable and transport costs included
Please apply for this PT with the enclosed registration form and send it to us by e-mail or by fax.

Contact:

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WFD PT Members :

| | |
|---|---|
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|  | <p>BSG Institute of Hygiene and Environment Hamburg GERMANY</p> |
|  | <p>LGC Standards Proficiency Testing Europa Business Park Barcroft Street, Bury Lancashire, BL9 5BT UNITED KINGDOM</p> |
|  | <p>Kemijski Institut Ljubljana Slovenija (National Institute of Chemistry Slovenia) PO Box 660, Hajdrihova 19 - Ljubljana SI-1001 SLOVENIA</p> |
|  | <p>QUALITYCONSULT "Associazione per lo sviluppo della qualità ambientale" Via G. Bettolo 4 00195 Roma ITALY</p> |
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Participation form

Laboratory name :
Member Code :

I want to register to the PTS “Short chain chloroparaffins – SCCPs (C10-C13 chloroalkanes) in surface water”» co-organised by Bipea.

Date :
Signature :

Order Form N°

