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## European Proficiency Testing Scheme: « Polybrominated diphenylether in surface water »

Bipea and his european partners (PTWFD network: [www.pt-wfd.eu](http://www.pt-wfd.eu)) are launching a Proficiency Testing Scheme « Polybrominated diphenylether 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 :

2,4,4-Tribromodiphenylether (BDE 28)  
2,2,4,4-Tetrabromodiphenylether (BDE 47)  
2,2,4,4,5-Pentabromodiphenylether (BDE 99)  
2,2,4,4,6-Pentabromodiphenylether (BDE 100)  
2,2,4,4,5,5-Hexabromodiphenylether (BDE 153)  
2,2,4,4,5,6-Hexabromodiphenylether (BDE 154)

### Matrix :

Surface water, not containing suspended particulate matter (SPM)

Parameters	AA-EQS [ng/l]
2,4,4-Tribromodiphenylether (BDE 28)	0.5
2,2,4,4-Tetrabromodiphenylether (BDE 47)	0.5
2,2,4,4,5-Pentabromodiphenylether (BDE 99)	0.5
2,2,4,4,6-Pentabromodiphenylether (BDE 100)	0.5
2,2,4,4,5,5-Hexabromodiphenylether (BDE 153)	0.5
2,2,4,4,5,6-Hexabromodiphenylether (BDE 154)	0.5

AA: Annual Average

### Dates and Deadlines:

- Application deadline: 31.08.2010

**Please apply for this PT with the enclosed registration form.**

- Dispatch of the samples: 13.10.2010
- **Deadline for submission of results: 11.11.2010, 24:00h**

### Sample dispatch

B.I.P.E.A. - Bureau InterProfessionnel d'Etudes Analytiques  
Siège social : 3, rue Joseph & Marie Hackin- F-75116 PARIS - N° SIRET : 338 310 196 00021 - Code APE : 9499Z  
N° TVA intracommunautaire : FR 06 338 310 196



Samples will be sent by courier service.

### Sample details

3 different surface water test samples at three levels of concentration of the analytes will be distributed in 1000 ml glass bottles, screw capped with PTFE sealing. Two bottles of each sample will be distributed for duplicate measurement. Sample preservation by cooling.

### Permitted analytical methods

Participants are free to choose a suitable method.

### Limit of quantification

The analytical method must achieve the following limits of quantification:

Parameters	LOQ [ng/l]
2,4,4-Tribromodiphenylether (BDE 28)	0.15
2,2,4,4-Tetrabromodiphenylether (BDE 47)	0.15
2,2,4,4,5-Pentabromodiphenylether (BDE 99)	0.15
2,2,4,4,6-Pentabromodiphenylether (BDE 100)	0.15
2,2,4,4,5,5-Hexabromodiphenylether (BDE 153)	0.15
2,2,4,4,5,6-Hexabromodiphenylether (BDE 154)	0.15

The limits are based on the requirements of article 4 of the commission directive 2009/90/EC of the European communities for the technical specifications for chemical analysis and monitoring of water status in the context of the water framework directive. The limits correspond to 30 % of the environmental standards of the directive 2008/105/EG on environmental quality standards in the field of water policy.

### Evaluation

The statistical evaluation of the PT is carried out using the Algorithm A mean of all data as assigned value  $X$  according to ISO 13528 (Annex C), a robust statistical method. The standard deviation for proficiency assessment (SDPA) is calculated in compliance with the requirements of the "PT-WFD"- network:  $SDPA = 0,25 \cdot X$ .

### Assessment

For each measured 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  \leq 2,0$	satisfactory
$2,0 <  z  < 3,0$	questionable
$ z  \geq 3,0$	unsatisfactory

### Certificate

For each parameter it will be stated, how many values are satisfactory, questionable or unsatisfactory.

The results reported as below (<) limit of quantification will be assessed as "unsatisfactory".

### Reporting

There will be a final report provided in German and English.

## Participation fee

The participation fee will be 520 € transport costs included. Please send us the registration form enclosed by fax or by e-mail.

## Contact:

Tel: +33 (0) 147335460

Fax: +33 (0) 140869259

[inassibou@bipea.org](mailto:inassibou@bipea.org)

## PT WFD Members :

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	<b>BSG Institute of Hygiene and Environment Hamburg</b> GERMANY
	<b>LGC Standards</b> Proficiency Testing Europa Business Park Barcroft Street, Bury Lancashire, BL9 5BT UNITED KINGDOM
	<b>Kemijski Institut Ljubljana Slovenija</b> (National Institute of Chemistry Slovenia) PO Box 660, Hajdrihova 19 - Ljubljana SI-1001 SLOVENIA
	<b>QUALITYCONSULT</b> "Associazione per lo sviluppo della qualità ambientale" Via G. Bettolo 4 00195 Roma ITALY
	<b>VITUKI Non-profit Ltd., Quality Assurance and Control</b> Kvassay Jenó út 1. 1095 Budapest HUNGARY
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## Participation form

Laboratory name :

Member Code :

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I want to register to the PTS on “Polybrominated diphenylether in surface water » co-organised by Bipea.

**Date :**  
**Signature :**

**Order Form N°**