“Alkylphenols and Bisphenol A”
in the frame of the 2012 joint programme of the PT-WFD

1. Objectives
To check the chemical analysis of these compounds in the context of chemical monitoring for the European Water Framework Directive (WFD).

2. Parameters to be analysed

<table>
<thead>
<tr>
<th>Parameters</th>
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<tbody>
<tr>
<td>Alkylphenols</td>
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<tr>
<td>Nonylphenol (4-Nonylphenol, C.A.S.=104-40-5)</td>
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<tr>
<td>Octylphenol (4-Tert-Octylphenol, C.A.S. = 140-66-9 )</td>
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<tr>
<td>Bisphenol A</td>
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3. Samples characteristics

3.1. Sample preparation
Concentrated solution diluted in a matrix of water will be used as PT sample.

3.2. Concentration levels
The concentration levels to be analyzed in the PT will be between 0.01 and 2 μg.L⁻¹ for the different parameters

3.3. Containers
One 10 mL glass vial containing a concentrated solution of these specific parameters
Two 1000 mL glass bottles containing the matrix water

3.4. Conservation
Cooling and darkness during transport and storage.

3.5. Number of samples per participant
Each participant receives one sample of the batch and the analysis should be made by triplicate under repeatability conditions.

3.6. Samples packaging
All samples are packed in cardboard boxes (1 per lab) including one double polystyrene moulding compound.

3.7. Samples distribution
Samples are sent by the cooperating partner (CP) to the corresponding participants.
4. Application procedure
The registration can be made directly though the CP sending the application form.

5. Confidentiality
To ensure the confidentiality, a secret code number is provided by the CP.

6. Execution of the analysis
The samples must be analyzed in the own laboratory with own personnel and own equipment following their internal procedures. Subcontracting of the analysis is not allowed.

7. Data transfer
Participants shall report results through the corresponding CP using the appropriate form.

8. Data Evaluation
8.1. Assigned values
The statistical evaluation of the PT will be done by ilab. It will be carried out using Algorithm A according to ISO 13528 for calculation of the mean. The preparation process of the samples can provide traceable assigned values, with allowance for matrix contributions, and this will be the source of the assigned value. The standard uncertainty of the assigned value will be estimated or derived according to internationally recognized standards or guidelines.

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

8.3. Assessment
For each measurement value x, a z-score will be calculated from the assigned value X and SDPA according to following formula:

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

The assessment of the results will be as follows:

- \[ |z\text{-score}| \leq 2.0 \] Satisfactory result
- \[ 2.0 < |z\text{-score}| < 3.0 \] Questionable result
- \[ |z\text{-score}| \geq 3.0 \] Unsatisfactory result

9. Reporting
The report will be prepared by ilab and distributed to the final participants by the corresponding CP.
10. Time schedule

1. Registration deadline: May 1\textsuperscript{st}, 2012
2. Dispatch of the samples: May 7\textsuperscript{th}, 2012
3. Deadline for results: June 8\textsuperscript{th}, 2012

11. Participation fee

The participation fee will be € 350 plus VAT, where applicable, and transport costs. For transport costs, please contact your PT provider.

12. Organizers

ielab is in charge of the central organisation and is going to perform the statistical evaluation.

| ielab | ielab Calidad, S.L.U  
C/ Dracma, 16  
Polígono Industrial Las Atalayas  
03114 Alicante  
SPAIN  
Tel: +34 966 10 55 01  
Fax: +34 966 10 55 03  
comercial@ielab.es |
|---|---|
| BSG HU, Hamburg  
Marckmannstr. 129 b  
D-20539 Hamburg  
GERMANY  
Tel: +49 40 42845-3645  
Fax: +49 40 42845-3847  
karla.ludwig-baxter@hu.hamburg.de |
| BIPEA  
6-14 avenue Louis Roche  
92230 Gennevilliers  
FRANCE  
Tel: +33 (0) 1 47 33 54 60  
Fax: +33 (0) 1 40 86 92 59  
contact@bipea.org |
| LGC Standards - Proficiency Testing  
1 Chamberhall Business Park  
Chamberhall Green  
Bury Lancashire BL9 0AP  
United Kingdom  
Tel: +44 (0) 161 762 2500  
Fax: +44 (0) 161 762 2501  
customerservices@lgcpt.com |
| QUALITYCONSULT  
"Associazione per lo sviluppo della qualità ambientale"  
Via G. Bettolo 4  
00195 Roma  
ITALY  
Tel: +39 320-6905464  
Fax: +39 0697840718  
Qualityconsult@aqc.it |
<table>
<thead>
<tr>
<th>Proftest, SYKE Finnish Environment Institute</th>
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<tbody>
<tr>
<td>Hakuninmaantie</td>
</tr>
<tr>
<td>FIN-00251 Helsinki</td>
</tr>
<tr>
<td>FINLAND</td>
</tr>
<tr>
<td>Tel: +358 20 610 123</td>
</tr>
<tr>
<td>Fax: +358 9 448 320</td>
</tr>
<tr>
<td><a href="mailto:proftest@environment.fi">proftest@environment.fi</a></td>
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<table>
<thead>
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<th>A.G.L.A.E.</th>
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<tr>
<td>427 rue des Bourreliers</td>
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<tr>
<td>Parc des Pyramides - bât D</td>
</tr>
<tr>
<td>59320 Hallennes lez Haubourdin</td>
</tr>
<tr>
<td>FRANCE</td>
</tr>
<tr>
<td>Tel: +33 (0)3 20 16 91 40</td>
</tr>
<tr>
<td>Fax: +33 (0)3 20 16 91 41</td>
</tr>
<tr>
<td><a href="mailto:karine.vidor@association-aglae.fr">karine.vidor@association-aglae.fr</a></td>
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