

## AGLAE 2023

### PROFICIENCY TESTING SCHEME CATALOGUE

### ENVIRONMENT - COSMETICS



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## Content

<b>Compliance of AGLAE's tests with approvals</b>	3
<b>New in 2023 – environmental field</b>	4
<b>Programmes in the environmental and cosmetics fields</b>	5 - 7
<b>Participate in AGLAE's External Quality Control</b>	8
<b>Additional services</b>	9
<b>Programmes' description: content, caption, glossary of the matrices</b>	10 - 12
<b>Technical description of the programmes, their price</b>	13 - 162
Sampling and <i>in situ</i> measurements	13 - 17
Base parameters and indicators in waters	18 - 38
Chemistry in atypical and non-atypical mineral waters	39 - 49
Metals in waters	50 - 54
Chemistry in solid matrices	55 - 70
Organic pollutants in clean or natural waters	71 - 109
Organic pollutants in waste waters	110 - 134
Indexes in waters	135 - 139
Microbiology in waters	140 - 154
Cosmetics	155 - 156
Biology and ecotoxicology	157 - 161
Waters intended for medical use	162 - 167
<b>General conditions of registration for the proficiency tests</b>	168 - 169

*Should there be any differences between the French and English versions of this document, the French version shall prevail.*

## Compliance of AGLAE's tests with approvals


A.G.L.A.E. is concerned with the compliance of its tests regarding:



- the approval delivered by the Ministry in charge of Health issues to carry out sampling and analyses intended for water quality control (French Order of 11 January 2019),



- the approval delivered by the Ministry in charge of Environmental issues to carry out analyses in the field of water and aquatic medium (French Order of 27 October 2011, completed by the Order of 19 October 2019).  
In particular, in order to meet these requirements, **at least one test per scheme for the relevant « parameters-matrices » concerned by this Order, will have a concentration less than 15 times the set quantification limit** when it is possible to maintain at the same time the quality of the test.



To know for which tests you need to register to meet French approvals requirements, check on the French version of your member area on [www.association-aglae.fr](http://www.association-aglae.fr).

**Home page in French**, « Téléchargements / Conformité réglementation »:

**TÉLÉCHARGEMENTS**
< >

**Conformité réglementation**

- » Conformité des essais à l'agrément Santé 2023
- » Couverture des essais à l'agrément Environnement 2023

*For non-members, these documents can be sent on request.*

## New in 2023 – environmental and cosmetics fields

### New programmes in the catalogue

#### Chemistry in atypical and non-atypical mineral waters

- ✓ 90B Dissolved CO<sub>2</sub> in sparkling waters
- ✓ 50B Disinfection by-products in highly mineralised mineral waters

#### Chemistry in solid matrices

- ✓ 46 Volatile Organic Compounds in solid matrices
- ✓ 51C PAHs in bituminous waste

#### Base parameters and indicators in waters

- ✓ 2F ST-COD low contents in waste waters
- ✓ 6A Dissolved oxygen in saline waters

#### Water microbiology

- ✓ 130 Bacteriophages in waters: enumeration of somatic coliphages and F-specific RNA bacteriophages

### Modifications of programmes

*(introduced in programmes existing in 2022)*

#### Organic pollutants in fresh waters

- ✓ 65F Pesticides and degradation residues - list 5 - in fresh waters:  
Creation of a second test with 29 new pesticides  
Ethidimuron removed (included in programme 65C) as well as flumioxazine

#### Base parameters in waters

- ✓ 1Ab Chemical analyses at low concentration levels: colour using ISO 7887 method B (without filtration) removed

#### Water microbiology

- ✓ 38A Mould in clean waters: **increase to 2 tests per year instead of 1**

#### Chemistry in atypical and non-atypical mineral waters

- ✓ 90 Chemical analyses in sparkling waters: dissolved CO<sub>2</sub> removed (creation of programme 90B Dissolved CO<sub>2</sub> in sparkling waters)

### New parameters for organic pollutants tests in fresh waters

*(added to programmes existing in 2022)*

- ✓ 4C /4Cb Volatile organohalogen and benzene derivatives in fresh waters: 9 molecules  
BTEX: 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, bromobenzene  
VOHs: 1,1,1,2-tetrachloroethane, bromochloromethane, dibromomethane, 1,3-dichloropropane, sec-butylbenzene
- ✓ 20A Chlorophenols in fresh waters: 8 chlorophenols  
2,3-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 3,4,5-trichlorophenol
- ✓ 23A Organotin compounds in fresh waters: dioctyltin cation

- ✓ 59 Perfluorinated compounds in fresh waters: 5 perfluorinated compounds  
PFDoDS, PFTrDS, PFUnDS, PFHpS, PFBS
- ✓ 65F Pesticides and degradation residues - list 5 - in fresh waters: 29 new pesticides in a second test
- ✓ 65G Pesticides and degradation residues - list 6 - in fresh waters: 5 pesticides  
ethephon, fonofos, oxychlorodane, oxyfluorfen, sulfotep
- ✓ 69 Chloroacetamide metabolites in fresh waters: 4 metabolites  
dimethachlore ESA or dimethachlore CGA 354742, dimetachlore CGA 369873, propachlore ESA, propachlore OXA

### Particular points

**LIMITED QUANTITY**

For solid matrices, the quantity of materials is limited. Thus, registrations are possible within the limits of available samples.

- ✓ 51B Chemical analyses and metals in waste (leaching) - 'LAGA/DepV'

This programme is provided every two years. It is not conducted in 2023 but will be provided again in 2024.

Find the programmes related to Medical Biology in the second catalogue of AGLAE's tests



## PTS in the Environmental field – chemistry and sampling

⇒ [Click on the programme's title to read its description](#)

Sampling and <i>in situ</i> measurements	
	page
<b>100A-C</b> <i>In situ</i> measurements and sampling in different types of waters - Nord - Rhône	14
<b>101A</b> Sampling using automatic samplers in treatment plant - Nord	15
<b>100D</b> <i>In situ</i> measurements and sampling in different types of waters - Creuse	16
<b>102D</b> Flowmetry - Creuse	17

Base parameters and indicators in waters	
Fresh waters, swimming pool waters, drinking waters	
	page
<b>1A</b> Chemical analyses in fresh waters	19
<b>1Ab</b> Chemical analyses in fresh waters at low concentration levels	21
<b>1B</b> Indicators in fresh waters	22
<b>1C</b> Chlorophyll a and pheopigments index in fresh waters	23
<b>1D</b> Field parameters in fresh waters	24
<b>1E</b> Dissolved oxygen in fresh waters	25
<b>1G</b> Dry residue in fresh waters	26
<b>1H</b> Physico-chemical indicators in swimming pool waters	27
<b>50</b> Perchlorates and disinfection by-products in fresh waters	28
<b>50A</b> Disinfection by-products in swimming pool waters	29
<b>91</b> Odour and flavour in waters intended for human consumption	30
Waste waters	
	Page
<b>2A</b> Chemical analyses in waste waters	31
<b>2B</b> Indicators in waste waters	32
<b>2C</b> Indicators in waste waters at low concentration levels	33
<b>2D</b> Field parameters and colour in waste waters	34
<b>2F</b> ST-COD at low contents in waste waters <b>New</b>	35
Saline waters	
	Page
<b>6</b> Chemical analyses in saline waters	36
<b>6A</b> Dissolved oxygen in saline waters <b>New</b>	37

Chemistry in atypical and non-atypical mineral waters	
	page
<b>3C</b> Metals in non-atypical natural mineral waters	39
<b>3E</b> Metals in sparkling waters	40
<b>3F</b> Metals in highly mineralised mineral waters	41
<b>50B</b> Disinfection by-products in highly mineralised mineral waters <b>New</b>	42
<b>90</b> Chemical analyses in sparkling waters	43
<b>90A</b> Chemical analyses in highly mineralised mineral waters	44
<b>90B</b> Dissolved CO <sub>2</sub> in sparkling waters <b>New</b>	45
<b>92</b> BTEX and VOC in atypical and non-atypical natural mineral waters	46
<b>93</b> Dry residue in atypical natural mineral waters	48
<b>94</b> PAHs and organochlorine pesticides in carbogaseous waters	49

Metals in waters	
	page
<b>3A</b> Metals in fresh waters	51
<b>3B</b> Metals in waste waters	52
<b>3D</b> Cr <sup>6+</sup> in waters	53
<b>7</b> Metals in saline waters	54

Chemistry in solid matrices	
	page
<b>9</b> Chemical analyses and metals in sediments	56
<b>10</b> Organic micropollutants in sediments	57
<b>40</b> Chemical analyses and metals in recoverable sewage sludges	59
<b>41</b> Organic micropollutants in recoverable sewage sludges	61
<b>43</b> Chemical analyses and metals in contaminated sites and soils	63
<b>44</b> Organic micropollutants in contaminated sites and soils	64
<b>46</b> Volatile Organic Compounds in solid matrices <b>New</b>	66
<b>51</b> Chemical analyses and metals in waste (leaching)	67
<b>51A</b> Cyanides and phenol index in waste (leaching)	68
<b>51C</b> PAHs in bituminous waste <b>New</b>	69
<b>120</b> Solid fuel products	70

Organic pollutants in fresh waters		page
<b>4C</b> Volatile organohalogens and benzene derivatives in fresh waters		72
<b>4Cb</b> Volatile organohalogens and benzene derivatives in fresh waters at low concentration levels		74
<b>20A</b> Chlorophenols in fresh waters		76
<b>21A</b> Alkylphenols in fresh waters		78
<b>22A</b> Chloroanilines in fresh waters		79
<b>23A</b> Organotin compounds in fresh waters		80
<b>24A</b> Brominated Diphenyl Ethers in fresh waters		81
<b>24C</b> HBCDD in fresh waters		82
<b>25A</b> Biphenyl in fresh waters		83
<b>26A</b> Phthalates in fresh waters		84
<b>27A</b> C10-C13 chloroalkanes (SCCPs) in fresh waters		85
<b>28A</b> Haloacetic acids in fresh waters		86
<b>29A</b> Epichlorohydrin in fresh waters		87
<b>52</b> AOX in waters		88
<b>54</b> Toxins of cyanobacteria in fresh waters		89
<b>55</b> Glyphosate, AMPA and other herbicides in fresh waters		90
<b>57</b> Pharmaceuticals in fresh waters		91
<b>58</b> Bisphenol A and S in fresh waters		93
<b>59</b> Perfluorinated compounds in fresh waters		94
<b>64</b> PAHs and PCBs in fresh waters		96
<b>65A</b> Pesticides and degradation residues - List 1 - in fresh waters		97
<b>65B</b> Pesticides and degradation residues – List 2 - in fresh waters		98
<b>65C</b> Pesticides and degradation residues - List 3 - in fresh waters		99
<b>65D</b> Pesticides and degradation residues - List 4 - in fresh waters		101
<b>65E</b> Parabens in fresh waters		103
<b>65F</b> Pesticides and degradation residues - List 5 - in fresh waters		104
<b>65G</b> Pesticides and degradation residues - List 6 - in fresh waters		106
<b>66</b> THMs in swimming pool waters		107
<b>67</b> Acrylamide in fresh waters		108
<b>69</b> Metabolites of chloroacetamides in fresh waters		109

Organic pollutants in waste waters		page
<b>4E</b> Volatile organohalogens and benzene derivatives in waste waters		111
<b>4Eb</b> Volatile organohalogens and benzene derivatives in waste waters at low concentration levels		113
<b>4F</b> Methanol in waste waters		115
<b>20B</b> Chlorophenols in waste waters		116
<b>21B</b> Alkylphenols in waste waters		117
<b>22B</b> Chloroanilines in waste waters		118
<b>23B</b> Organo-tin compounds in waste waters		119
<b>24B</b> Brominated Diphenyl Ethers in waste waters		120
<b>24C</b> HBCDD, HBB in waste waters		121
<b>25B</b> Biphenyl in waste waters		122
<b>26B</b> DEHP in waste waters		123
<b>27B</b> C10-C13 chloroalkanes (SCCPs) in waste waters		124
<b>28B</b> Chloroacetic acid in waste waters		125
<b>29B</b> Epichlorohydrin in waste waters		126
<b>52</b> AOX in waters		127
<b>55A</b> Glyphosate, AMPA and aminotriazole in waste waters		128
<b>59A</b> Perfluorinated compounds in waste waters		129
<b>71</b> PAHs and PCBs in waste waters		130
<b>72A</b> Pesticides and degradation residues - List 1 - in waste waters		131
<b>72B</b> Pesticides and degradation residues - List 2 - in waste waters		133
<b>73</b> Alkylphenol ethoxylates in waste waters		134

Indexes in waters		page
<b>5A</b> Global indexes in fresh waters		136
<b>5B</b> Global indexes in waste waters		137
<b>5C</b> Total hydrocarbons index in waters		138
<b>5D</b> Volatile hydrocarbons index in waters		139

## PTS in the Environmental field – biology, ecotoxicology, endotoxins and cosmetics

⇒ [Click on the programme's title to read its description](#)

Water microbiology		page
<b>11</b>	Microbial indicators of faecal contamination by MPN method	141
<b>30</b>	Microbiology in clean waters	142
<b>30A</b>	Spores of sulfite-reducing anaerobes in fresh surface waters and waste waters	144
<b>31</b>	<i>Pseudomonas aeruginosa</i> and pathogenic staphylococci in clean waters	145
<b>31A</b>	Pathogenic staphylococci in saline waters	146
<b>32</b>	<i>Legionella</i> and <i>Legionella pneumophila</i> in clean waters by culture	147
<b>33</b>	<i>Legionella</i> and <i>Legionella pneumophila</i> in waste waters by culture	148
<b>35</b>	<i>Legionella</i> and <i>Legionella pneumophila</i> in clean waters by PCR	149
<b>36</b>	<i>Legionella</i> and <i>Legionella pneumophila</i> in waste waters by PCR	150
<b>37</b>	<i>Salmonella</i> in <b>fresh</b> waters	151
<b>38</b>	Yeasts in clean waters	152
<b>38A</b>	Mould in clean waters	153
<b>130</b>	Bacteriophages in waters <span style="color: red; font-weight: bold;">New</span>	154

Biology and ecotoxicology		page
<b>12</b>	Macroinvertebrates of running waters	158
<b>13</b>	Ecotoxicology	159
<b>16</b>	Biological Diatom Index	160
<b>34</b>	Protozoans in <b>fresh</b> waters	161

Waters for medical use		Page
<b>82</b>	Endotoxins in waters as described in the pharmacopoeia	163
<b>83A</b>	Microbiology in waters similar to dialysate	164
<b>83B</b>	Microbiology in waters similar to endoscope verification solutions	165
<b>86</b>	Indicator germs by filtration in bacteriologically controlled waters	166
<b>86B</b>	Indicator germs in waters similar to pharmaceutical process waters	167

Cosmetics		page
<b>110</b>	Challenge test	156

**In red:** modifications compared to the 2022 scheme  
 English version of the test documents provided for almost all the tests  
*Conduct of the programmes subject to a sufficient number of participants*

## Participate in AGLAE's External Quality Control



A WAY OF WORKING THAT PROVIDES YOU WITH THE HIGHEST STANDARD OF RESULTS WITH CONFIDENTIALITY AND IMPARTIALITY

Each step of the way, AGLAE is there supporting you.

### REGISTRATIONS FOR PROFICIENCY TESTING ARE DONE KNOWING THE WHOLE PROCESS, WITH A DETAILED AND RIGOROUS SCHEDULE

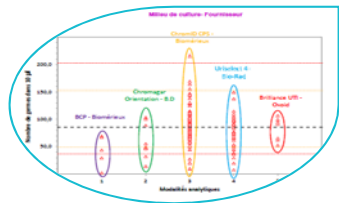


- ✓ The number of evaluations per year for each parameter is specified in the catalogue, concentration levels and stabilisation are available on request.
- ✓ AGLAE uses "express" shipments for your samples and makes sure of their distribution to your laboratory.
- ✓ A sufficient delay to analyse and the report the results.
- ✓ Via your member area, **enter your results and find instructions, assigned codes, reports, summaries of your results, certificate of participation...**

### THE OPTIMISATION OF RISK MANAGEMENT FOR YOUR LABORATORY



- You have a better visibility of potential anomalies through:
- ✓ An appropriate test design (duplicate samples, repeated measurements),
  - ✓ A large number of participants: around 200 laboratories in the field of 'base' microbiology and 'base' physico-chemical analyses.



- ✓ Influence of the analytical methods, manufacturers (equipment and consumables)... factors that we study to help you improve the quality of your analyses,
- ✓ For waters intended for medical use and water microbiology, estimation of your own uncertainties in microbiology,
- ✓ Check of your uncertainty estimates in chemistry (zeta-score),
- ✓ A report validated by experts of the field and personalised for most tests.

### ATTRACTIVE DISCOUNTS, PAYMENT CONDITIONS MADE EASIER

- Choose among the various programmes and benefit from discounts up to 15%,
- A possible payment in 2 or 3 folds depending on the amount your participation.
- Payment possible by cheque (in €), bank transfer, credit card on <https://www.helloasso.com/associations/a-g-l-a-e/paiements/aglae>

Amount of your invoice (excluding transport fees)	Discount
3000 ≤ Amount < 6000 € excl. VAT	<b>5%</b>
6000 ≤ Amount < 9000 € excl. VAT	<b>10%</b>
Amount ≥ 9000 € excl. VAT	<b>15%</b>

**And exclusively for AGLAE's members:  
experimental tests at an attractive price during the year**

## Additional services



### ADDITIONAL TEST SAMPLES TO TEST ANOTHER METHOD, EVALUATE A TECHNICIAN

- ✓ Test samples available for almost all the tests at half price.
- ✓ Besides your usual distribution, you receive one (or several) additional parcel(s).
- ✓ The results of these samples are not statistically processed by AGLAE but for most tests you get a sheet **in your results file** where to **calculate your z-score**. Note that this sheet can also be used in case of unit error, incorrect results' report, etc.

⇒ Check the **list of samples and their price on your Member Area** (Downloads / Catalogues) and contact us to receive a quote. These additional samples need to be ordered after you registration for the test and before the shipment.



### QUALITY CONTROL MATERIALS FOR YOUR MONITORING AND IMPROVEMENT OF YOUR ANALYTICAL PERFORMANCE

- ✓ Materials coming from the **solid matrices tests: sediments, sludge, polluted sites and soils**.
- ✓ Purchased at any time during the year and delivered with a certificate presenting the precision values obtained during the test (assigned value and uncertainties).

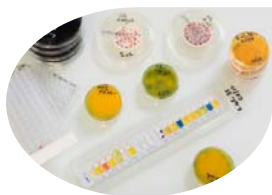
⇒ Check the **list of materials, prices and available quantities on your Member Area** (Downloads / Catalogues) and contact us to receive a quote.



### TRAINING SESSIONS IN MICROBIOLOGY: ONE TOPIC PROVIDED IN ENGLISH

Two-day on-line session to become operational for:  
Characterising a microbiological method according to ISO 13843 in order to validate it: **24 - 25 May 2023**

⇒ Check the programmes and registration form on [AGLAE's web site](#), section 'Training sessions'.



### CUSTOMIZED SERVICE: 'PERFORMANCE CHARACTERISTICS OF MICROBIOLOGICAL METHODS'

Do you need to characterise specific methods?  
AGLAE can provide you support to establish methods performance characteristics, in conformity with ISO 13843\*. Benefit from AGLAE's technical and statistical experience to validate your microbiological method.

\* *Water quality — Requirements for establishing performance characteristics of quantitative microbiological methods*

⇒ Should you have such needs, contact us to study your request together and issue a quote.



### SUMMARY OF YOUR RESULTS FOR WATER MICROBIOLOGY AND WATER FOR MEDICAL USE TESTS

Gather at any time your results and performance: for a selected period, your results are grouped in an Excel file; this is a tool to support you in your Internal Quality Control, your audits...



### FORUM OF AGLAE'S MEMBERS: COMMUNICATE WITH OTHER MEMBERS WITH CONFIDENTIALITY

- ✓ Check your field of interest: environment chemistry, environment microbiology and medical biology,
- ✓ Give your opinion or ask questions on various themes: analytical, accreditation, need of other tests...

⇒ Find the forum on the home page of your Member Area.

## Programmes' description

### Content

For each programme's description, you will find the technical content of the test : volumes, parameters, matrices, dispatch month...

The concentration levels and stabilisation modalities of the samples are available on request.

*The samples' dispatch months are given for information only.*

**Transport costs depend on the destination and tests selected within the programmes; contact us to get a quote.**

### Caption



This logo shows that the programme is accredited by LABORATORIES section in compliance with ISO/IEC 17043.

## Glossary of the matrices used

Name of the matrix for water chemistry		Below the matrices that can be used, alone or mixed, to comply with the representativity of the specified matrix				
		public drinking waters	bottled waters	reverse osmosis waters	deionised waters	surface waters
<b>Natural mineral waters</b>						
<b>Non-atypical*</b>			<b>x flat</b> (dry residue at 180°C<1500 mg/L)			
<b>Atypical</b>	<b>carbo-gaseous</b>		<b>x gaseous</b> (CO <sub>2</sub> >250 mg/L)	<b>x regasified</b> (CO <sub>2</sub> >250 mg/L)		
	<b>highly mineralised</b>		<b>x plates</b> (dry residue at 180°C<1500 mg/L)			
<b>Fresh waters</b>						
<b>Non-atypical natural mineral waters*</b>			<b>x flat</b> (dry residue at 180°C<1500 mg/L)			
<b>Natural waters</b>						<b>x</b>
<b>Clean waters</b>		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x (clear)</b>

For more information on atypical waters, check the following document: [ANSES/LHN/REF-CSE - Version 3](#) (in French)

*\* For some parameters in non-atypical natural mineral waters, specific programmes exist (3C, 92) with concentration levels different from those in fresh waters.*

Name of the matrix for water chemistry		Below the matrices that can be used, alone or mixed, to comply with the representativity of the specified matrix			
		Waste waters from WWTP	Swimming pool waters	Estuary water, costal water	Synthetic waters
<b>Swimming pool waters</b>			<b>x</b>		
<b>Waste waters</b>		<b>x</b>			<b>x</b>
<b>Saline and brackish waters</b>				<b>x</b>	<b>x</b>

WWTP: Waste Water Treatment Plant



Name of the matrix for environmental biology	Below the matrices that can be used, alone or mixed, to comply with the representativity of the specified matrix									
	public drinking waters	bottled waters	waters from rivers or lakes	water from well or drill	waste waters from WWTP	sea water	domestic hot waters	water from industrial origin	swimming pool waters	Synthetic waters
Bathing freshwaters			x							
Bathing saline waters						x				
Saline waters						x				x
Surface waters			x							
Clean waters	x	x		x			x		x	
Waste waters					x					x
Waste waters (for Legionella tests)			x					x		x

WWTP: Waste Water Treatment Plant

Name of the matrix for Biology of waters for medical use	Below the matrices that can be used, alone or mixed, to comply with the representativity of the specified matrix		
	Apyrogen sterile distilled water	Deionised water	Water for injectable preparations
Waters for medical use	x	x	x
Pharmaceutical waters	x	x	x

Name of the matrix for solid matrices	Below the matrices that can be used, alone or mixed, to comply with the representativity of the specified matrix					
	marine, river or port sediments	sludges from WWTP, industrial, sewage	soils or industrial contaminated sites	ashes	clinkers	residues from industries or human activity
Sediments	x					
Sludges		x				
Soils			x			
Wastes		x	x	x	x	x
Solid Recovered Fuels		x				x (wood, paper, plastic, non dangerous waste)

## SAMPLING AND *IN SITU* MEASUREMENTS



## PROGRAMMES 100A-100C: *IN SITU* MEASUREMENTS AND SAMPLING IN DIFFERENT TYPES OF WATERS

**735 € excl. VAT** – price for the report of one series of results

**From 8 participants** per interlaboratory comparison in 2023 – EXPERIENCE: 6 YEARS

➤ **2 possible locations in France:**

- ✓ **23M100A.1 - Nord - May 2023**
- ✓ **23M100C.1 – Rhône - June 2023**

➤ ***In situ* measurements:**

✓ **In several types of water:**

Nord: bathing water, river water and swimming pool water  
Rhône: bathing water, river water

- ✓ **Parameters for bathing waters and river waters\*:** pH, conductivity at 25°C, dissolved oxygen, turbidity, temperature, Secchi disc transparency, REDOX potential. Other parameters may be provided depending on the places.

- ✓ **Parameters for swimming pool waters:** pH, temperature, free chlorine and total chlorine.

➤ **Sampling of surface water and/or bathing water:**

- ✓ **Analyses by a third party: microbiological parameters\*** (intestinal enterococci, *E. coli*, ...) **and/or chemical\*** (suspended matters, nitrates, organic carbon, total phosphorus, calcium, micropollutants potentially present...)



*\* This list will be adapted according to the characteristics of the waters of the selected places.*

### PARTICULARITIES

- ✓ Come with the usual sampling equipment
- ✓ Minimum of 8 participants per location, limited number of places
- ✓ Exact dates and addresses communicated at a later stage
- ✓ **The test documents of these Proficiency Testing Schemes are not translated into English.**

## PROGRAMME 101A: SAMPLING USING AUTOMATIC SAMPLERS IN TREATMENT PLANT - NORD



**735 € excl. VAT** - price for the report of one series of results

**From 8 participants** per interlaboratory comparison in  
2023 – EXPERIENCE: 4 YEARS

➤ **23M101A.1 - Nord - May 2023**

**Possibility to combine the 2 programmes:** 100A and 101A

➤ **In situ measurements on reconstituted sample:**

**Parameters\*:** pH, conductivity, dissolved oxygen, turbidity. Other parameters may be provided.

➤ **In situ measurements:**

**Parameter:** temperature.

➤ **Sampling:**

**Analyses by a third party: chemical parameters\*** (suspended matters, total phosphorus, ammonium, Total Organic Carbon, micropollutants potentially present...)

*\* This list will be adapted according to the characteristics of the waste waters.*

### PARTICULARITIES

- ✓ Come with the usual sampling equipment
- ✓ Minimum of 8 participants per place, limited number of places
- ✓ Exact dates and addresses communicated at a later stage
- ✓ **The test documents of these Proficiency Testing Schemes are not translated into English.**

## PROGRAMME 100D: *IN SITU* MEASUREMENTS AND SAMPLING IN DIFFERENT TYPES OF WATER - CREUSE

**735 € excl. VAT** - price for the report of one series of results

**From 8 participants** per interlaboratory comparison in 2023 – EXPERIENCE: 6 YEARS



- **23M100D.1 – La Souterraine (Creuse) – October 2023 – week 43**
- **In situ measurements :**
  - ✓ **In several type of water:** bathing water and river water.
  - ✓ **Parameters for bathing waters and river waters\*:** pH, conductivity at 25°C, dissolved oxygen, turbidity, temperature, Secchi disc transparency, REDOX potential. Other parameters may be provided depending on the places.
- **Sampling of surface water:**
  - ✓ **Analyses by a third party: microbiological parameters\*** (intestinal enterococci, *E. coli*, ...) **and/or chemical\*** (suspended matters, nitrates, organic carbon, total phosphorus, calcium, ...)

*\* This list will be adapted according to the characteristics of the waters of the selected places.*

### PARTICULARITIES

In partnership with:



- ✓ **Possibility to combine the 2 programmes:** 100D - 102D
- ✓ Come with the usual sampling equipment
- ✓ Minimum of 8 participants per test, limited number of participants
- ✓ Exact dates and address communicated at a later stage
- ✓ **The test documents of these Proficiency Testing Schemes are not translated into English.**



## PROGRAMME 102D: FLOWMETRY - CREUSE



**308 € excl. VAT** - price for the report of one series of results

**From 8 participants** per interlaboratory comparison in 2023 – EXPERIENCE: 3 YEARS

➤ **23M102D.1 – La Souterraine (Creuse) - October 2023**

➤ **Several levels of flow on an open channel**

### PARTICULARITIES

In partnership with:



- ✓ Possibility to combine the 2 programmes: 100D - 102D
- ✓ Come with the usual sampling equipment
- ✓ Minimum of 8 participants per test, **limited number of participants**
- ✓ Exact dates and addresses communicated at a later stage
- ✓ **The test documents of these Proficiency Testing Schemes are not translated into English.**

**BASE PARAMETERS AND  
INDICATORS IN WATERS**





## PROGRAMME 1A: CHEMICAL ANALYSES IN FRESH WATERS

The materials are suitable for the check of analyses in clear freshwaters, public drinking waters, spring waters and non-atypical natural mineral waters.



**296 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**225 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1A.1 - Clean water - sent in February 2023 - Refrigerated parcel</b>			
colour by comparison with hexachloroplatinate (without filtration), colour using (NF EN) ISO 7887 method B (without filtration) <sup>[1]</sup> , conductivity, F <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , pH, REDOX potential, turbidity	1000 mL	2	2
Ca <sup>2+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , soluble silicates, degree of hardness, total alkalinity, total organic carbon (TOC), total silica	1000 mL	2	2
total organic carbon (TOC), permanganate index	500 mL	2	2
<b>23M1A.2 - Clean water - sent in November 2023 - Refrigerated parcel</b>			
colour by comparison with hexachloroplatinate (without filtration), colour using (NF EN) ISO 7887 method B (without filtration) <sup>[1]</sup> , conductivity, F <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , pH, REDOX potential, turbidity	1000 mL	2	2
Ca <sup>2+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , soluble silicates, degree of hardness, total alkalinity, total organic carbon (TOC), total silica	1000 mL	2	2
total organic carbon (TOC), permanganate index	500 mL	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

## PARTICULARITIES

**Colour by comparison with hexachloroplatinate (without filtration):** The colour can be determined by visual comparison according to (NF EN) ISO 7887 - method D or by spectrophotometry according to (NF EN) ISO 7887 - method C.

**Colour using (NF EN) ISO 7887 method B (without filtration):** The colour determination according to (NF EN) ISO 7887 method B without filtration can be carried out on these samples.

'Environment approval': register also for the programme 1Ab. The parameters concerned by the French Order of the 27/10/11 completed by the order of the 19/10/19 will be at low concentration levels.

### Recommended period to start the sample treatment (PRDT): time interval during which the quality of test materials is optimal (in number of days)

colour, pH, REDOX potential	D <sub>0</sub> +2
total organic carbon (TOC), turbidity, NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , conductivity, permanganate index, total alkalinity	D <sub>0</sub> +3
Ca <sup>2+</sup> , Cl <sup>-</sup> , F <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , soluble silicates, total silica, degree of hardness	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1Ab: CHEMICAL ANALYSES IN FRESH WATERS AT LOW CONCENTRATION LEVELS

The materials are suitable for the check of analyses in clear freshwaters, public drinking waters, spring waters and non-atypical natural mineral waters.



**217 € excl. VAT** – total amount for 1 test (excluding transport costs)

**127 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **110 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1Ab.1 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
colour by comparison with hexachloroplatinate (without filtration), conductivity, F <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , pH, REDOX potential, turbidity	1000 mL	2	2
Ca <sup>2+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , soluble silicates, degree of hardness, total alkalinity, total organic carbon (TOC), total silica	1000 mL	2	2
total organic carbon (TOC), permanganate index	500 mL	2	2

### PARTICULARITIES

**Colour by comparison with hexachloroplatinate (without filtration):** The colour can be determined by visual comparison according to (NF EN) ISO 7887 - method D or by spectrophotometry according to (NF EN) ISO 7887 - method C.

'Environment approval': this is an additional proficiency test identical to the tests of programme 1A but at low concentration levels to meet the requirements of the French Order of the 27/10/11 completed by the order of the 19/10/19 for the relevant parameters (as long as it is possible to maintain the quality of the test).

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
colour, pH, REDOX potential	D <sub>0</sub> +2
total organic carbon (TOC), turbidity, NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , conductivity, permanganate index, total alkalinity	D <sub>0</sub> +3
Ca <sup>2+</sup> , Cl <sup>-</sup> , F <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , soluble silicates, total silica, degree of hardness	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1B: INDICATORS IN FRESH WATERS



**161 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**136 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **45 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1B.1 - Natural water - sent in February 2023 - Refrigerated parcel</b>			
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), DOC, total organic carbon (TOC), Total bound nitrogen (TN <sub>b</sub> measured), Total Kjeldahl Nitrogen (TKN), Total-P	1000 mL	2	2
biochemical oxygen demand after 5 days	1000 mL	2	<b>1</b>
total suspended solids (TSS)	1000 mL	2	2
<b>23M1B.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), DOC, total organic carbon (TOC), Total bound nitrogen (TN <sub>b</sub> measured), Total Kjeldahl Nitrogen (TKN), Total-P	1000 mL	2	2
biochemical oxygen demand after 5 days	1000 mL	2	<b>1</b>
total suspended solids (TSS)	1000 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

biochemical oxygen demand after 5 days, total suspended solids (TSS)	D <sub>0</sub> +1
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method)	D <sub>0</sub> +2
DOC, total organic carbon (TOC)	D <sub>0</sub> +3
Total Kjeldahl Nitrogen (TKN)	D <sub>0</sub> +6
Total bound nitrogen (TN <sub>b</sub> measured), Total-P	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1C: CHLOROPHYLL A AND PHEOPIGMENTS INDEX IN FRESH WATERS



**193 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**43 participants** in 2022 – EXPERIENCE: 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1C.1 - Natural water - sent in June 2023 - Refrigerated parcel</b>			
chlorophyll a, pheopigments index	2000 mL	2	2
<b>23M1C.2 - Natural water - sent in September 2023 - Refrigerated parcel</b>			
chlorophyll a, pheopigments index	2000 mL	2	2

### PARTICULARITIES

Chlorophyll a and pheopigments index: after extraction, measurement of the absorption by molecular absorption spectrometry then calculation of the concentrations using the LORENZEN or the SCOR-UNESCO equation.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

chlorophyll a, pheopigments index

D<sub>0</sub>+1

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1D: FIELD PARAMETERS IN FRESH WATERS

The materials are suitable for the check of analyses in public drinking waters, spring waters and non-atypical natural mineral waters.



**228 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**174 participants** in 2022 – EXPERIENCE: 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **60 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1D.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
conductivity, free chlorine (or available chlorine), isocyanuric acid, pH, REDOX potential, total chlorine	500 mL	2	2
<b>23M1D.2 - Clean water - sent in September 2023 - Refrigerated parcel</b>			
conductivity, free chlorine (or available chlorine), isocyanuric acid, pH, REDOX potential, total chlorine	500 mL	2	2

### PARTICULARITIES

To evaluate the quality of your sampling, AGLAE conducts tests "In situ measurements and sampling in different types of water" in several regions of Metropolitan France.

➔ Check the programmes 100 (conducted in French only).

In the frame of your accreditation scope, you may also be interested in the programme 1E 'Dissolved oxygen in fresh waters'.

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
free chlorine, isocyanuric acid, total chlorine	D <sub>0</sub> +1
REDOX potential, pH	D <sub>0</sub> +2
conductivity	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1E: DISSOLVED OXYGEN IN FRESH WATERS

The materials are suitable for the check of analyses in public drinking waters, spring waters and non-atypical natural mineral waters.



**120 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**128 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **30 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1E.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
dissolved O <sub>2</sub>	500 mL	2	1
<b>23M1E.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
dissolved O <sub>2</sub>	500 mL	2	1

### PARTICULARITIES

To evaluate the quality of your sampling, AGLAE conducts tests "In situ measurements and sampling in different types of water" in several regions of Metropolitan France.

→ Check the programmes 100 (conducted in French only).

In the frame of your accreditation scope, you may also be interested in the programme 1D 'Field parameters in fresh waters'.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

dissolved O<sub>2</sub>

D<sub>0</sub>+1

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 1G: DRY RESIDUE IN FRESH WATERS

The materials are suitable for the check of analyses in public drinking waters, spring waters and non-atypical natural mineral waters.



**76 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**63 participants** in 2022 – EXPERIENCE: 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **20 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1G.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
Dry residue at 105°C, Dry residue at 180°C	1000 mL	2	2
<b>23M1G.2 - Clean water - sent in May 2023 - Refrigerated parcel</b>			
Dry residue at 105°C, Dry residue at 180°C	1000 mL	2	2

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Dry residue at 105°C, Dry residue at 180°C

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 1H: PHYSICO-CHEMICAL INDICATORS IN SWIMMING POOL WATERS



250 € excl. VAT – total amount for 2 tests (excluding transport costs)

51 participants in 2022 – EXPERIENCE: 3 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M1H.1 – Swimming pool water - sent in April 2023 - Refrigerated parcel</b>			
isocyanuric acid, free chlorine (or available chlorine), total chlorine, Cl <sup>-</sup> , pH	500 mL	2	2
Total organic carbon (TOC)	250 mL	2	2
<b>23M1H.2 - Swimming pool water - sent in September 2023 - Refrigerated parcel</b>			
isocyanuric acid, free chlorine (or available chlorine), total chlorine, Cl <sup>-</sup> , pH	500 mL	2	2
Total organic carbon (TOC)	250 mL	2	2

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
isocyanuric acid, free chlorine, total chlorine	D <sub>0</sub> +1
pH	D <sub>0</sub> +2
Total organic carbon (TOC), Cl <sup>-</sup>	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 50: PERCHLORATES AND DISINFECTION BY-PRODUCTS IN FRESH WATERS

The materials are suitable for the check of analyses in public drinking waters, spring waters and non-atypical natural mineral waters.



**242 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**53 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M50.1 - Clean water - sent in February 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , ClO <sub>4</sub> <sup>-</sup>	250 mL	2	2
BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	250 mL	2	2
<b>23M50.2 - Clean water - sent in September 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , ClO <sub>4</sub> <sup>-</sup>	250 mL	2	2
BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	250 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Br <sup>-</sup> , BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup> , ClO <sub>4</sub> <sup>-</sup>	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 50A: DISINFECTION BY-PRODUCTS IN SWIMMING POOL WATERS



**149 € excl. VAT** – total amount for 1 test (excluding transport costs)

**49 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M50A.1 - Swimming pool water - sent in May 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , BrO <sub>3</sub> <sup>-</sup>	250 mL	2	2
ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	250 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Br <sup>-</sup> , BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 91: ODOUR AND FLAVOUR IN WATERS INTENDED FOR HUMAN CONSUMPTION

The materials are suitable for the check of analyses in public drinking waters, spring waters and non-atypical natural mineral waters.



**190 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**18 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M91.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
Threshold Odour Number - TON	500 mL	2	1
Threshold Flavour Number - TFN	500 mL	2	1
<b>23M91.2 - Clean water - sent in September 2023 - Refrigerated parcel</b>			
Threshold Odour Number - TON	500 mL	2	1
Threshold Flavour Number - TFN	500 mL	2	1

### PARTICULARITIES

Threshold odour number (TON) and threshold flavour number (TFN) by the complete method by paired comparison with non-forced choice according to NF EN 1622 standard.

Panel of 5 assessors maximum for each test.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Threshold Flavour Number - TFN,  
Threshold Odour Number - TON

**D<sub>0</sub>+3**

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 2A: CHEMICAL ANALYSES IN WASTE WATERS



206 € excl. VAT – total amount for 2 tests (excluding transport costs)

135 participants in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M2A.1 - Waste water - sent in April 2023 - Refrigerated parcel</b>			
Dissolved salts, F <sup>-</sup> , conductivity, pH, soluble silicates, total silica (Si)	1000 mL	2	2
Dissolved calcium (Ca <sup>2+</sup> ), total calcium (Ca), Cl <sup>-</sup> , K <sup>+</sup> , dissolved magnesium (Mg <sup>2+</sup> ), total magnesium (Mg), Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , total alkalinity	1000 mL	2	2
PO <sub>4</sub> <sup>3-</sup>	250 mL	2	2
<b>23M2A.2 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
Dissolved salts, F <sup>-</sup> , conductivity, pH, soluble silicates, total silica (Si)	1000 mL	2	2
Dissolved calcium (Ca <sup>2+</sup> ), total calcium (Ca), Cl <sup>-</sup> , K <sup>+</sup> , dissolved magnesium (Mg <sup>2+</sup> ), total magnesium (Mg), Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , total alkalinity	1000 mL	2	2
PO <sub>4</sub> <sup>3-</sup>	250 mL	2	2

### PARTICULARITIES

Dissolved salts: evaluation of the quantity of dissolved matters from the measurement of the theoretical electrical conductivity according to NF T90-111 or any other equivalent standard; the results have to be reported in µS/cm.

Total silica (Si), total calcium (Ca), total magnesium (Mg): analysed parameters taking into account dissolved and particulate forms.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

pH	D <sub>0</sub> +1
Dissolved salts, PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , conductivity, total alkalinity	D <sub>0</sub> +3
Dissolved calcium (Ca <sup>2+</sup> ), total calcium (Ca), Cl <sup>-</sup> , F <sup>-</sup> , K <sup>+</sup> , dissolved magnesium (Mg <sup>2+</sup> ), total magnesium (Mg), Na <sup>+</sup> , total silica, soluble silicates	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 2B: INDICATORS IN WASTE WATERS



264 € excl. VAT – total amount for 2 tests (excluding transport costs)

203 participants in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **70 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M2B.1 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , conductivity, pH	1000 mL	2	2
DOC, total organic carbon (TOC), Total Kjeldahl Nitrogen (TKN), Total bound nitrogen (TN <sub>b</sub> measured), Total-P	1000 mL	2	2
total suspended solids (TSS)	1000 mL	2	2
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), Cl <sup>-</sup>	1000 mL	2	2
BOD <sub>5</sub>			1
<b>23M2B.2 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , conductivity, pH	1000 mL	2	2
DOC, total organic carbon (TOC), Total Kjeldahl Nitrogen (TKN), Total bound nitrogen (TN <sub>b</sub> measured), Total-P	1000 mL	2	2
total suspended solids (TSS)	1000 mL	2	2
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), Cl <sup>-</sup>	1000 mL	2	2
BOD <sub>5</sub>			1

### PARTICULARITIES

'Environment approval':

- ☞ Register also for the programme 2C. The parameters concerned by the French Order of the 27/10/11 completed by the order of the 19/10/19 will be at low concentration levels.
- ☞ Register also for the programme 2F. The ST-COD contents will be low and between 10 mg of O<sub>2</sub>/L and 30 mg of O<sub>2</sub>/L.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

BOD <sub>5</sub> , Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), pH, total suspended solids (TSS)	D <sub>0</sub> +1
DOC, total organic carbon (TOC), NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , Total Kjeldahl Nitrogen (TKN), Total bound nitrogen (TN <sub>b</sub> measured), conductivity	D <sub>0</sub> +3
Br <sup>-</sup> , Cl <sup>-</sup> , Total-P	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 2C: INDICATORS IN WASTE WATERS AT LOW CONCENTRATION LEVELS



**141 € excl. VAT** – total amount for 1 test (excluding transport costs)

**127 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M2C.1 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
Br <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , conductivity, pH	1000 mL	2	2
DOC, total organic carbon (TOC), Total Kjeldahl Nitrogen (TKN), Total bound nitrogen (TN <sub>b</sub> measured), Total-P	1000 mL	2	2
total suspended solids (TSS)	1000 mL	2	2
Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), Cl <sup>-</sup>	1000 mL	2	2
BOD <sub>5</sub>			1

### PARTICULARITIES

'Environment approval': this is an additional proficiency test identical to the tests of programme 2B but at low concentration levels to meet the requirements of the French Order of the 27/10/11 completed by the order of the 19/10/19 for the relevant parameters (as long as it is possible to maintain the quality of the test).

☞ Register also for the programme 2F. The ST-COD contents will be low and between 10 mg of O<sub>2</sub>/L and 30 mg of O<sub>2</sub>/L.

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
BOD <sub>5</sub> , Chemical Oxygen Demand, Chemical Oxygen Demand (Sealed Tube method), pH, total suspended solids (TSS)	D <sub>0</sub> +1
DOC, total organic carbon (TOC), NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , Total Kjeldahl Nitrogen (TKN), Total bound nitrogen (TN <sub>b</sub> measured), conductivity	D <sub>0</sub> +3
Br <sup>-</sup> , Cl <sup>-</sup> , Total-P	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 2D: FIELD PARAMETERS AND COLOUR IN WASTE WATERS



**86 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**103 participants** in 2022 – EXPERIENCE: 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **25 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M2D.1 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
pH, conductivity, turbidity, REDOX potential, true colour by comparison with hexachloroplatinate	500 mL	2	2
<b>23M2D.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
pH, conductivity, turbidity, REDOX potential, true colour by comparison with hexachloroplatinate	500 mL	2	2

### PARTICULARITIES



True colour analysed by spectrophotometry according to method C of the NF EN ISO 7887 standard. The determination of the true colour according to the method D of the NF EN ISO 7887 standard can be carried out.

In order to evaluate the quality of your samplings, AGLAE conducts proficiency tests "Sampling using automatic samplers in treatment plant" in Metropolitan France.

**→ Check the programme(s) 101 (conducted in French only)**

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
pH, true colour by comparison with hexachloroplatinate	D <sub>0</sub> +1
REDOX potential	D <sub>0</sub> +2
conductivity, turbidity	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 2F: ST-COD AT LOW CONTENTS IN WASTE WATERS



94 € excl. VAT – total amount for 1 test (excluding transport costs)

54 participants in 2022 – EXPERIENCE: 1 YEAR



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

**New**  
in the catalogue

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M2F.1 - Waste water - sent in June 2023 - Refrigerated parcel</b>			
Cl <sup>-</sup> , Chemical Oxygen Demand (Sealed Tube method)	250 mL	2	2

### PARTICULARITIES

In the frame of this proficiency test, ST-COD contents will be low and between 10 mg of O<sub>2</sub>/L and 30 mg of O<sub>2</sub>/L.

Test samples may contain high chloride contents, which will nevertheless be representative of the levels found in routine wastewater.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Chemical Oxygen Demand (Sealed Tube method)	D <sub>0</sub> +1
Cl <sup>-</sup>	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 6: CHEMICAL ANALYSES IN SALINE WATERS



661 € excl. VAT – total amount for 2 tests (excluding transport costs)

30 participants in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **170 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M6.1 - Saline and brackish water - sent in June 2023 - Refrigerated parcel</b>			
NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , dissolved silica, Total-P	1000 mL	2	2
pH, salinity, total organic carbon (TOC)	1000 mL	2	2
total suspended solids (TSS)	1000 mL	2	2
turbidity	500 mL	2	2
<b>23M6.2 - Saline and brackish water - sent in September 2023 - Refrigerated parcel</b>			
NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , dissolved silica, Total-P	1000 mL	2	2
pH, salinity, total organic carbon (TOC)	1000 mL	2	2
total suspended solids (TSS)	1000 mL	2	2
turbidity	500 mL	2	2

### PARTICULARITIES

For dissolved oxygen in saline and brackish waters, you may register for the programme 6A.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

pH	D <sub>0</sub> +1
total suspended solids (TSS)	D <sub>0</sub> +2
NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , turbidity	D <sub>0</sub> +3
total organic carbon (TOC), dissolved silica, Total-P, salinity	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 6A: DISSOLVED OXYGEN IN SALINE WATERS

120 € excl. VAT – total amount for 1 test (excluding transport costs)

**New**

New in 2023



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **60 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M6A.1 - Saline and brackish water - sent in September 2023 - Refrigerated parcel</b>			
Dissolved O <sub>2</sub>	500 mL	2	1

### PARTICULARITIES

Test conducted for a minimum of 10 participants.

For chemical analyses in saline and brackish waters, you may register for programme 6.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Dissolved O <sub>2</sub>	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

# CHEMISTRY IN ATYPICAL AND NON-ATYPICAL MINERAL WATERS



## PROGRAMME 3C: METALS IN NON-ATYPICAL NATURAL MINERAL WATERS

*Non-atypical natural mineral waters: dry residue at 180°C < 1500 mg/L*



**256 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**29 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3C.1 - Flat mineral water - sent in January 2023</b>			
Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	500 mL	2	2
Hg	250 mL	2	2
<b>23M3C.2 - Flat mineral water - sent in June 2023</b>			
Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	500 mL	2	2
Hg	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used should enable to measure the total content of the element.

‘Health approval’: this specific programme provides concentration levels appropriate for non-atypical mineral waters.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Hg, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	D <sub>0</sub> +17
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 3E: METALS IN SPARKLING WATERS



185 € excl. VAT – total amount for 1 test (excluding transport costs)

22 participants in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **95 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3E.1 - Carbogaseous water - sent in February 2023</b>			
Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	500 mL	2	2
Hg	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used must enable to measure the total content of this element.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Hg, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	D <sub>0</sub> +17
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 3F: METALS IN HIGHLY MINERALISED MINERAL WATERS



**187 € excl. VAT** – total amount for 1 test (excluding transport costs)

**12 participants** in 2022 – EXPERIENCE 3 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **95 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3F.1 – Highly mineralised water - sent in May 2023</b>			
Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	500 mL	2	2
Hg	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used must enable to measure the total content of this element.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Al, As, B, Ba, Be, Cd, Cr, Cu, Fe, Hg, Li, Mn, Ni, Pb, Sb, Se, Sr, U, Zn	D <sub>0</sub> +17
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 50B: DISINFECTION BY-PRODUCTS IN HIGHLY MINERALISED MINERAL WATERS

150 € excl. VAT – total amount for 1 test (excluding transport costs)

**New**

New in 2023



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **80 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M50B.1 – Highly mineralised mineral water - sent in February 2023 - Refrigerated parcel</b>			
BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	250 mL	2	2

### PARTICULARITIES

Test conducted for a minimum of 10 participants.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

BrO <sub>3</sub> <sup>-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup>	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 90: CHEMICAL ANALYSES IN SPARKLING WATERS



**135 € excl. VAT** – total amount for 1 test (excluding transport costs)

**34 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **70 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M90.1 - Carbogaseous water - sent in June 2023 - Refrigerated parcel</b>			
turbidity, HCO <sub>3</sub> <sup>-</sup> , conductivity, pH, total alkalinity	500 mL	2	1
F <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , Br <sup>-</sup>	500 mL	2	2
Ca <sup>2+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , dissolved silica, degree of hardness	500 mL	2	2
total organic carbon (TOC), PO <sub>4</sub> <sup>3-</sup>	330 mL	2	2

### PARTICULARITIES

**NEW IN 2023:**

For the analysis of dissolved CO<sub>2</sub> dissous, you need to register for the programme 90B 'Dissolved CO<sub>2</sub> in sparkling waters'.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

total organic carbon (TOC), turbidity, HCO <sub>3</sub> <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , conductivity, pH, total alkalinity	D <sub>0</sub> +3
Ca <sup>2+</sup> , Cl <sup>-</sup> , F <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , dissolved silica, degree of hardness, Br <sup>-</sup>	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 90A: CHEMICAL ANALYSES IN HIGHLY MINERALISED MINERAL WATERS



**143 € excl. VAT** – total amount for 1 test (excluding transport costs)

**19 participants** in 2022 – EXPERIENCE 3 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M90A.1 - Highly mineralised mineral waters - sent in October 2023 - Refrigerated parcel</b>			
conductivity, HCO <sub>3</sub> <sup>-</sup> , pH, total alkalinity, turbidity	1000 mL	2	2
Br <sup>-</sup> , F <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup>	500 mL	2	2
Ca <sup>2+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , dissolved silica, degree of hardness, total organic carbon (TOC)	1000 mL	2	2

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
total organic carbon (TOC), turbidity, HCO <sub>3</sub> <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , conductivity, pH, total alkalinity	D <sub>0</sub> +3
Br <sup>-</sup> , Ca <sup>2+</sup> , Cl <sup>-</sup> , F <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , SO <sub>4</sub> <sup>2-</sup> , dissolved silica, degree of hardness	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 90B: DISSOLVED CO<sub>2</sub> IN SPARKLING WATERS



100 € excl. VAT – total amount for 1 test (excluding transport costs)

7 participants in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M90B.1 - Carbogaseous water - sent in June 2023 - Refrigerated parcel</b>			
Dissolved CO <sub>2</sub>	330 mL	2	1

### PARTICULARITIES

For the analysis of other physico-chemical parameters in carbogaseous waters, you may register for the programme 90 'Chemical analyses in sparkling waters'.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Dissolved CO <sub>2</sub>	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 92: BTEX AND VOC IN ATYPICAL AND NON-ATYPICAL NATURAL MINERAL WATERS

*Non-atypical natural mineral waters: dry residue at 180°C < 1500 mg/L*



**532 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**17 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **135 € excl. VAT**  
(excluding transport costs)

Parameters to analyse <i>(implemented in each proficiency test)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M92.1 - sent in June 2023 - Refrigerated parcel</b>			
<b>Non-atypical mineral water</b>			
<b>BTEX:</b> benzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta, ethylbenzene	60 mL	2	1
<b>VOC:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, trihalomethanes (THMs)*, vinyl chloride	60 mL	2	1
<b>Carbogaseous water (sparkling water)</b>			
<b>BTEX:</b> benzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta, ethylbenzene	60 mL	2	1
<b>VOC:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, trihalomethanes (THMs)*, vinyl chloride	60 mL	2	1
<b>23M92.2 - sent in November 2023 - Refrigerated parcel</b>			
<b>Non-atypical mineral water</b>			
<b>BTEX:</b> benzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta, ethylbenzene	60 mL	2	1
<b>VOC:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, trihalomethanes (THMs)*, vinyl chloride	60 mL	2	1
<b>Highly mineralised mineral water</b>			
<b>BTEX:</b> benzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta, ethylbenzene	60 mL	2	1
<b>VOC:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, trihalomethanes (THMs)*, vinyl chloride	60 mL	2	1

**PARTICULARITIES**

The first proficiency test will concern non-atypical mineral waters and carbogaseous waters.  
 The second proficiency test will concern non-atypical mineral waters and highly mineralised waters.

**\*THM (= trihalomethanes):**

**Sum of contents in chloroform + bromoform + dichlorobromomethane + dibromochloromethane.**

‘Health approval’: this specific programme provides concentration levels appropriate for atypical and non-atypical mineral waters.

**Recommended period to start the sample treatment (PRDT):**

time interval during which the quality of test materials is optimal (in number of days)

BTEX  
 VOC

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 93: DRY RESIDUE IN ATYPICAL NATURAL MINERAL WATERS



**76 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**9 participants** in 2022 – EXPERIENCE 2 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **20 € excl. VAT** (excluding transport costs)

Parameters to analyse <i>(implemented in each proficiency test)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M93.1 - carbogaseous water - sent in February 2023 - Refrigerated parcel</b>			
Dry residue at 180°C	1000 mL	2	2
<b>23M93.2 - highly mineralised mineral water - sent in June 2023 - Refrigerated parcel</b>			
Dry residue at 180°C	1000 mL	2	2

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
Dry residue at 180°C	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 94: PAHS AND ORGANOCHLORINE PESTICIDES IN SPARKLING WATERS

**413 € excl. VAT** – total amount for 1 test (excluding transport costs)

**6 participants** in 2022 – EXPERIENCE 2 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M94.1 - carbogaseous water - sent in May 2023 - Refrigerated parcel</b>			
benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, indeno[1,2,3 - cd]pyrene, fluoranthene	1000 mL	2	1
aldrin, dieldrin, heptachlor, heptachlorepoxyde exo cis, heptachlorepoxyde endo trans, heptachlorepoxyde (total)	1000 mL	2	1

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, indeno[1,2,3 - cd]pyrene, fluoranthene, aldrin, dieldrin, heptachlor, heptachlorepoxyde exo cis, heptachlorepoxyde endo trans, heptachlorepoxyde (total)	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

METALS IN WATERS



## PROGRAMME 3A: METALS IN FRESH WATERS

Test materials are suitable for the check of analyses in clear freshwaters, public drinking waters and non-atypical spring waters.



563 € excl. VAT – total amount for 3 tests (excluding transport costs)

125 participants in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **95 € excl. VAT** (excluding transport costs)

Parameters to analyse <i>(implemented twice during the year and in 3 deliveries)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3A.1 - Clean water - sent in January 2023</b>			
Al, Ba, Be, Cd, Co, Cr, Fe, Gd, Li, Mn, Mo, Ni, Pb, S, Sr, Ti, U, V, Zn	500 mL	2	2
Ag	250 mL	2	2
Hg	250 mL	2	2
<b>23M3A.2 - Clean water - sent in May 2023</b>			
Al, As, B, Be, Bi, Cd, Cu, Fe, Gd, Mo, Pb, S, Sb, Se, Sn, Te, Ti, Tl, W, Zr	500 mL	2	2
Ce, Ga, La	100 mL	2	2
Hg	250 mL	2	2
<b>23M3A.3 - Clean water - sent in November 2023</b>			
As, B, Ba, Bi, Co, Cr, Cu, Li, Mn, Ni, Sb, Se, Sn, Sr, Te, Tl, U, V, W, Zn, Zr	500 mL	2	2
Ce, Ga, La	100 mL	2	2
Ag	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used should enable to measure the total content of this element.

‘Health approval’: the specific programme 3C provides concentration levels appropriate for non-atypical mineral waters.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Ag	D <sub>0</sub> +3
Al, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Fe, Ga, Gd, Hg, La, Li, Mn, Mo, Ni, Pb, S, Sb, Se, Sn, Sr, Te, Ti, Tl, U, V, W, Zn, Zr	D <sub>0</sub> +17

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 3B: METALS IN WASTE WATERS



568 € excl. VAT – total amount for 3 tests (excluding transport costs)

113 participants in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **95 € excl. VAT** (excluding transport costs)

Parameters to analyse <i>(implemented twice during the year and in 3 deliveries)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3B.1 - Waste water - sent in March 2023</b>			
Al, As, B, Ba, Cd, Co, Cr, Fe, Li, Mn, Ni, Sn, Te, Ti, Tl, V, W, Zr	500 mL	2	2
Ag, Hg	250 mL	2	2
<b>23M3B.2 - Waste water - sent in September 2023</b>			
As, B, Ba, Be, Bi, Co, Cu, Mn, Mo, Ni, Pb, S, Sb, Se, Sr, Te, U, V, W, Zn	500 mL	2	2
<b>23M3B.3 - Waste water - sent in December 2023</b>			
Al, Be, Bi, Cd, Cr, Cu, Fe, Li, Mo, Pb, S, Sb, Se, Sn, Sr, Ti, Tl, U, Zn, Zr	500 mL	2	2
Ag, Hg	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used should enable to measure the total content of this element.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Ag	D <sub>0</sub> +3
Al, As, B, Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Hg, Li, Mn, Mo, Ni, Pb, S, Sb, Se, Sn, Sr, Te, Ti, Tl, U, V, W, Zn, Zr	D <sub>0</sub> +17

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 3D: HEXAVALENT CHROMIUM IN WATERS

Clean and natural waters: the materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**151 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**76 participants** in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **20 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M3D.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
Cr <sup>+6</sup>	250 mL	2	2
<b>23M3D.2 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
Cr <sup>+6</sup>	250 mL	2	2
<b>23M3D.3 - Waste water - sent in August 2023 - Refrigerated parcel</b>			
Cr <sup>+6</sup>	250 mL	2	2
<b>23M3D.4 - Natural water - sent in November 2023 - Refrigerated parcel</b>			
Cr <sup>+6</sup>	250 mL	2	2

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
Cr <sup>+6</sup>	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 7: METALS IN SALINE WATERS



**146 € excl. VAT** – total amount for 1 test (excluding transport costs)

**13 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M7.1 - Saline and brackish water – sent in May 2023</b>			
As, Cd, Cr, Cu, Ni, Pb, Fe, Mn, Zn	1000 mL	2	2
Hg	250 mL	2	2

### PARTICULARITIES

For all the parameters, the method used should enable to measure the total content of the element.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

As, Cd, Cr, Cu, Hg, Ni, Pb, Fe, Mn, Zn	analyse upon receipt
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## CHEMISTRY IN SOLID MATRICES



## PROGRAMME 9: CHEMICAL ANALYSES AND METALS IN SEDIMENTS



**394 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**44 participants** in 2022 – EXPERIENCE > 20 YEARS



**Quality Control Materials** coming from proficiency tests available  
**20 € excl. VAT** per bottle (excluding transport costs)  
 Materials are available once the test report is issued.

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M9.1 - Sediment - sent in January 2023</b>			
total organic carbon (TOC), Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mn, Mg, Mo, Na, Ni, Pb, pH, Sb, Se, Sn, Ti, Tl, Total Kjeldahl Nitrogen (TKN), Total-P, U, V, Zn, total-C, total-N	around 60 g	2	2
dry matter, grain size distribution <sup>[1]</sup> , loss on ignition at 550°C	around 200 g	2	2
<b>23M9.2 - Sediment - sent in July 2023</b>			
total organic carbon (TOC), Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mn, Mg, Mo, Na, Ni, Pb, pH, Sb, Se, Sn, Ti, Tl, Total Kjeldahl Nitrogen (TKN), Total-P, U, V, Zn, total-C, total-N	around 60 g	2	2
dry matter, grain size distribution <sup>[1]</sup> , loss on ignition at 550°C	around 200 g	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

dry matter, loss on ignition at 550°C	D <sub>0</sub> +17
Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mn, Mg, Mo, Na, Ni, Pb, pH, Sb, Se, Sn, Ti, Tl, Total Kjeldahl Nitrogen (TKN), Total-P, U, V, Zn, grain size distribution, total-C, total-N, total organic carbon (TOC)	D <sub>0</sub> +24

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 10: ORGANIC MICROPOLLUTANTS IN SEDIMENTS



532 € excl. VAT – total amount for 2 tests (excluding transport costs)

27 participants in 2022 – EXPERIENCE > 20 YEARS



**Quality Control Materials** coming from proficiency tests available  
**20 € excl. VAT** per bottle (excluding transport costs)  
 Materials are available once the test report is issued.

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M10.1 - Sediment - sent in March 2023</b>			
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180 <b>Organochlorines:</b> aldrin, dieldrin, heptachlor, heptachlorepoxyde (total), lindane <b>Organophosphorus:</b> diazinon	around 70 g	2	2
<b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, 2-methylfluoranthene, 2-methylnaphtalene, naphtalene, phenanthrene, pyrene, <b>total hydrocarbons index - C10-C40 range</b> <b>Organotin compounds:</b> monobutyltin cation, dibutyltin cation, tributyltin cation, tetrabutyltin, triphenyltin cation	around 100 g	2	2
<b>23M10.2 - Sediment - sent in July 2023</b>			
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180 <b>Organochlorines:</b> aldrin, dieldrin, heptachlor, heptachlorepoxyde (total), lindane <b>Organophosphorus:</b> diazinon	around 70 g	2	2
<b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, 2-methylfluoranthene, 2-methylnaphtalene, naphtalene, phenanthrene, pyrene <b>Total hydrocarbons index - C10-C40 range</b> <b>Organotin compounds:</b> monobutyltin cation, dibutyltin cation, tributyltin cation, tetrabutyltin, triphenyltin cation	around 100 g	2	2

**PARTICULARITIES**



The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

Total hydrocarbons index - C10-C40 range: sum of the concentrations of compounds extractable with a hydrocarbon solvent, boiling point between 36 °C and 69 °C, not adsorbed on Florisil and which may be chromatographed by GC-FID, with retention times between those of n-decane (C10H22) and n-tetracontane (C40H82).

**Recommended period to start the sample treatment (PRDT):**

time interval during which the quality of test materials is optimal (in number of days)

PCBs, Organochlorines, Organophosphorus, PAHs, total hydrocarbons index - C10-C40 range, Organotin compounds	D <sub>0</sub> +24
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 40: CHEMICAL ANALYSES AND METALS IN RECOVERABLE SEWAGE SLUDGES



492 € excl. VAT – total amount for 2 tests (excluding transport costs)

43 participants in 2022 – EXPERIENCE > 25 YEARS



**Quality Control Materials** coming from proficiency tests available for pretreated materials only.

**20 € excl. VAT** per bottle (excluding transport costs).

Materials are available once the test report is issued.

Parameters to analyse <i>(some parameters are not provided in raw sludge)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M40.1 - Pretreated sludge - sent in April 2023</b>			
total organic carbon (TOC), Ag, Al, As, B, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sum (Cr + Cu + Ni + Zn), Total Kjeldahl Nitrogen (TKN), total-C, total-N, Total-P, Total-S, Ti, V, Zn, dry matter, loss on ignition at 550°C, pH	around 60 g	2	2
<b>23M40.2 - Raw sludge - sent in October 2023</b>			
total organic carbon (TOC), Al, As, B, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sum (Cr + Cu + Ni + Zn), Total Kjeldahl Nitrogen (TKN), total-C, total-N, Total-P, Total-S, Zn, dry matter, loss on ignition at 550°C, pH	around 500 g	2	2

### PARTICULARITIES



The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

A.G.L.A.E. provides proficiency tests on the one hand on **raw materials** (to include the part of measurement uncertainty due to the pretreatment phase like in your routine analyses) and on the other hand on **pretreated materials** (to guarantee the presence of all the parameters to analyse and carry out enhanced monitoring on the analytical part of the analysis, predominant source of uncertainty).

- ✓ **Pretreated material:** material dried, crushed and sieved.
- ✓ **Raw material:** material dried, lightly crushed but not sieved. If we are not able to guarantee the presence of all the parameters listed, an evaluation of your results will still be carried out (check of false positives).

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
dry matter, loss on ignition at 550°C	D <sub>0</sub> +17
Ag, Al, As, B, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sum (Cr + Cu + Ni + Zn), Total Kjeldahl Nitrogen (TKN), total-C, total-N, Total-P, Total-S, Ti, V, Zn, pH, total organic carbon (TOC)	D <sub>0</sub> +24

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 41: ORGANIC MICROPOLLUTANTS IN RECOVERABLE SEWAGE SLUDGES



**554 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**19 participants** in 2022 – EXPERIENCE > 25 YEARS



**Quality Control Materials** coming from proficiency tests available for pretreated materials only.

**20 € excl. VAT** per bottle (excluding transport costs).

Materials are available once the test report is issued.

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M41.1 - Pretreated sludge - sent in April 2023</b>			
<b>dry matter</b> <b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene <b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180, Sum of congeners 28, 52, 101, 118, 138, 153, 180	around 100 g	2	2
<b>23M41.2 - Raw sludge - sent in October 2023</b>			
<b>dry matter</b> <b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene <b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180, Sum of congeners 28, 52, 101, 118, 138, 153, 180	around 400 g of raw sludge	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

**PARTICULARITIES (CONTINUED)**

A.G.L.A.E. provides proficiency tests on the one hand on raw materials (to include the part of measurement uncertainty due to the pretreatment phase like in your routine analyses) and on the other hand on pretreated materials (to guarantee the presence of all the parameters to analyse and carry out enhanced monitoring on the analytical part of the analysis, predominant source of uncertainty).

- ✓ **Pretreated material:** material dried, crushed and sieved.
- ✓ **Raw material:** material dried, lightly crushed but not sieved. If we are not able to guarantee the presence of all the parameters listed, an evaluation of your results will still be carried out (check of false positives).

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Dry matter	D <sub>0</sub> +17
PAHs, PCBs	D <sub>0</sub> +24

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 43: CHEMICAL ANALYSES AND METALS IN CONTAMINATED SITES AND SOILS



**294 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**24 participants** in 2022 – EXPERIENCE > 10 YEARS



**Quality Control Materials** coming from proficiency tests available for pretreated materials only.

**20 € excl. VAT** per bottle (excluding transport costs).

Materials are available once the test report is issued.

Parameters to analyse <i>((some parameters are not provided in raw soil))</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M43.1 - Pretreated soil - sent in May 2023</b>			
total organic carbon (TOC), dry matter, Al, As, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Total-P, Sb, Se, Sn, Zn	around 50 g	2	2
<b>23M43.2 - Raw soil - sent in November 2023</b>			
total organic carbon (TOC), dry matter, Al, As, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Total-P, Se, Zn	around 500 g of raw soil	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

A.G.L.A.E. provides proficiency tests on the one hand on **raw materials** (to include the part of measurement uncertainty due to the pretreatment phase like in your routine analyses) and on the other hand on **pretreated materials** (to guarantee the presence of all the parameters to analyse and carry out enhanced monitoring on the analytical part of the analysis, predominant source of uncertainty).

- ✓ **Pretreated material:** material dried, crushed and sieved.
- ✓ **Raw material:** material dried, lightly crushed but not sieved. If we are not able to guarantee the presence of all the parameters listed, an evaluation of your results will still be carried out (check of false positives).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

dry matter	D <sub>0</sub> +17
Al, As, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Total-P, Zn, total organic carbon (TOC)	D <sub>0</sub> +24

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 44: ORGANIC MICROPOLLUTANTS IN CONTAMINATED SITES AND SOILS



**442 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**24 participants** in 2022 – EXPERIENCE > 10 YEARS



**Quality Control Materials** coming from proficiency tests available for pretreated materials only.

**20 € excl. VAT** per bottle (excluding transport costs).

Materials are available once the test report is issued.

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M44.1 - Pretreated soil - sent in May 2023</b>			
<b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene <b>total hydrocarbons index - C10-C40 range</b> <b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180	around 100 g	2	2
<b>23M44.2 - Raw soil - sent in November 2023</b>			
<b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene <b>total hydrocarbons index - C10-C40 range</b> <b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180	around 400 g of raw soil	2	2

### PARTICULARITIES



The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

Total hydrocarbons index - C10-C40 range: sum of the concentrations of compounds extractable with a hydrocarbon solvent, boiling point between 36 °C and 69 °C, not adsorbed on Florisil and which may be chromatographed by GC-FID, with retention times between those of n-decane (C10H22) and n-tetracontane (C40H82).

### PARTICULARITIES (CONTINUED)

A.G.L.A.E. provides proficiency tests on the one hand on **raw materials** (to include the part of measurement uncertainty due to the pretreatment phase like in your routine analyses) and on the other hand on **pretreated materials** (to guarantee the presence of all the parameters to analyse and carry out enhanced monitoring on the analytical part of the analysis, predominant source of uncertainty).

- ✓ **Pretreated material:** material dried, crushed and sieved.
- ✓ **Raw material:** material dried, lightly crushed but not sieved. If we are not able to guarantee the presence of all the parameters listed, an evaluation of your results will still be carried out (check of false positives).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

PAHs total hydrocarbons index - C10-C40 range PCBs	D <sub>0</sub> +24
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 46: VOLATILE ORGANIC COMPOUNDS IN SOLID MATRICES

260 € excl. VAT – total amount for 1 test (excluding transport costs)

**New**

New in 2023

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M46.1 – Pretreated sediment - sent in March 2023 - Refrigerated parcel</b>			
Dry matter Benzene, toluene, ethylbenzene, xylene ortho, xylene para + xylene meta, total xylenes	around 100 g	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Dry matter	D <sub>0</sub> +17
Benzene, toluene, ethylbenzene, xylene ortho, xylene para + xylene meta, total xylenes	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 51: CHEMICAL ANALYSES AND METALS IN WASTE (LEACHING)

Wastes can be polluted soils, ashes, clinkers, residues from industrial activity, sludges from wastewater treatment plants.



681 € excl. VAT – total amount for 2 tests (excluding transport costs)

44 participants in 2022 – EXPERIENCE > 20 YEARS

Parameters to analyse <i>(implemented in at least one proficiency test)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M51.1 - Waste - sent in May 2023</b>			
conductivity, dry matter, dry residue at 105°C of the eluate, pH, soluble fraction, total organic carbon (TOC), unburned rate at 500°C As, Cd, Cr, Cr <sup>+6</sup> , Cu, Hg, Ni, Pb, Zn, Cl <sup>-</sup> , F <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup>	around 250 g	2	2
<b>23M51.2 - Waste - sent in October 2023</b>			
conductivity, dry matter, dry residue at 105°C of the eluate, pH, soluble fraction, total organic carbon (TOC), unburned rate at 500°C As, Ba, Cd, Cr, Cr <sup>+6</sup> , Cu, Hg, Mo, Ni, Pb, Sb, Se, Zn Cl <sup>-</sup> , F <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup>	around 250 g	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

Leaching of the waste carried out with a ratio L/S=10 (L/kg) and contact duration of 24h.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

conductivity, dry matter, dry residue at 105°C of the eluate, soluble fraction, pH, total organic carbon (TOC), loss on ignition at 500°C, As, Ba, Cd, Cr, Cr <sup>+6</sup> , Cu, Hg, Mo, Ni, Pb, Sb, Se, Zn Cl <sup>-</sup> , F <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup>	D <sub>0</sub> +24
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 51A: CYANIDES AND PHENOL INDEX IN WASTE (LEACHING)



This programme meets in particular the requirements of the German regulation dealing with waste intended for landfill or recycling ('LAGA/DepV': 'Länder-Arbeitsgemeinschaft Abfall / Deponieverordnung').



**599 € excl. VAT** – total amount for 1 test (excluding transport costs)

**21 participants** in 2022 – EXPERIENCE 5 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M51A.1 - Waste - sent in September 2023</b>			
Easily liberatable cyanide, total cyanide, dry matter	around 60 g	2	2
phenol index <sup>[1]</sup> , dry matter	around 70 g	2	2
[1] parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

The unit to report the results is expressed per liter of eluate.  
Leaching of the waste carried out with a ratio L/S=10 (L/kg) and contact duration of 24h.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Easily liberatable cyanide, phenol index, total cyanide, dry matter	D <sub>0</sub> +24
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 51C: PAHS IN BITUMINOUS WASTE

245 € excl. VAT – total amount for 1 test (excluding transport costs)

**New**  
in the catalogue

18 participants in 2021 – EXPERIENCE: 1 YEAR

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M51C.1 – Bituminous waste - sent in June 2023</b>			
Dry matter <b>PAHs:</b> acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphthalene, phenanthrene, pyrene	around 50 g	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

Bituminous waste sieved at 500 µm.

**Biannual periodicity:** this programme is provided one year out of two. It will be provided again in 2025.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Dry matter	D <sub>0</sub> +17
PAHs	D <sub>0</sub> +24

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 120: SOLID FUEL PRODUCTS

147 € excl. VAT – total amount for 1 test (excluding transport costs)

16 participants in 2022 – EXPERIENCE: 3 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M120.1 - Solid Recovery Fuel - sent in August 2023</b>			
Moisture content, Cl, H, S, GCV at constant volume, NCV at constant volume	around 50 g	2	2

### PARTICULARITIES

**LIMITED QUANTITY**

The number of participants for the proficiency tests in solid matrices is limited. Registrations are possible within the limits of available samples. Register quickly.

The analyses of NCV at constant pressure, O, C and N can be carried out on these samples. Data statistical treatment may be performed if the number of participants is sufficient. On the contrary, only a review will be presented in the test report (no z-scores calculation).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Moisture content, Cl, H, S, GCV at constant volume, NCV at constant volume	D <sub>0</sub> +24
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## ORGANIC POLLUTANTS IN FRESH WATERS





## PROGRAMME 4C: VOLATILE ORGANOHALOGENS AND BENZENE DERIVATIVES IN FRESH WATERS

*The materials are suitable for the check of public drinking waters, spring waters and non-atypical natural mineral waters except for BTEX and VOHs provided in non-atypical mineral waters of programme 92.*



**550 € excl. VAT** – total amount for 1 test (excluding transport costs)

**53 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **280 € excl. VAT** (excluding transport costs)

**New:**

1,1,1,2-tetrachloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene (= pseudocumene), 1,3,5-trimethylbenzene (= mesitylene), 1,3-dichloropropane, bromobenzene, bromochloromethane, dibromomethane, sec-butylbenzene

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4C.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
<b>BTEX:</b> 1,2,3-trimethylbenzene <sup>[1]</sup> , 1,2,4-trimethylbenzene <sup>[1]</sup> (= pseudocumene), 1,3,5-trimethylbenzene <sup>[1]</sup> (= mesitylene), benzene, bromobenzene <sup>[1]</sup> , ethylbenzene, isopropylbenzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta	60 mL	2	1
<b>VOHs:</b> 1,1,1,2-tetrachloroethane <sup>[1]</sup> , 1,2-dichloroethane, bromoform, bromochloromethane <sup>[1]</sup> , chloroform, dibromochloromethane, dibromomethane <sup>[1]</sup> , dichlorobromomethane, tetrachloroethylene, trichloroethylene, THMs*, vinyl chloride	60 mL	2	1
<b>chlorobenzenes - light:</b> 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, chlorobenzene, dichlorobenzenes (sum of the 3 isomers), <b>chlorotoluenes:</b> 2-chlorotoluene, 3-chlorotoluene, 4-chlorotoluene, chlorotoluenes (sum of the 3 isomers), <b>VOHs:</b> 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,2-dibromoethane, 1,2-dichloroethylene (cis+trans), 1,2-dichloroethylene cis, 1,2-dichloroethylene trans, 1,2-dichloropropane, 1,3-dichloropropane <sup>[1]</sup> , 1,3-dichloropropene (cis+trans), 3-chloroprene (3-chloropropene), carbon tetrachloride, chloroprene, dichloromethane, hexachlorobutadiene, hexachloroethane, , methyl bromide (bromomethane), methyl ter-butyl ether (MTBE), sec-butylbenzene <sup>[1]</sup>	100 mL	2	1

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4C.1 (continued)</b>			
<b>Hexachlorobutadiene</b> <b>nitro-aromatics:</b> 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-nitrotoluene, nitrobenzene, <b>chlorobenzenes:</b> 1,2,4,5-tetrachlorobenzene, tetrachlorobenzenes (sum of the 3 isomers), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, trichlorobenzenes (sum of the 3 isomers), hexachlorobenzene, pentachlorobenzene	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

#### PARTICULARITIES

‘Environment approval’: register also for the programme 4Cb. The parameters concerned by the French Order of the 27/10/11 completed by the order of the 19/10/19 will be at low concentration levels.

‘Health approval’: the specific programme 92 provides concentration levels appropriate for atypical and non-atypical mineral waters for BTEX (benzene, toluene, xylene ortho, xylene para + xylene meta, total xylene, ethylbenzene) and some VOHs.

\*THM (= trihalomethanes):

Sum of contents in chloroform + bromoform + dichlorobromomethane + dibromochloromethane.

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
nitro-aromatics	analyse upon receipt
chlorobenzenes	D <sub>0</sub> +3
hexachlorobutadiene	D <sub>0</sub> +3
BTEX VOHs chlorobenzenes - light chlorotoluenes	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 4Cb: VOLATILE ORGANOHALOGENS AND BENZENE DERIVATIVES IN FRESH WATERS AT LOW CONCENTRATION LEVELS

The materials are suitable for the check of public drinking waters, spring waters and non-atypical natural mineral waters except for BTEX and VOHs provided in non-atypical mineral waters of programme 92.



**330 € excl. VAT** – total amount for 1 test (excluding transport costs)

**62 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **170 € excl. VAT** (excluding transport costs)

**New:**

1,1,1,2-tetrachloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene (= pseudocumene), 1,3,5-trimethylbenzene (= mesitylene), 1,3-dichloropropane, bromobenzene, bromochloromethane, dibromomethane, sec-butylbenzene

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4Cb.1 - Clean water - sent in November 2023 - Refrigerated parcel</b>			
<b>BTEX:</b> 1,2,3-trimethylbenzene <sup>[1]</sup> , 1,2,4-trimethylbenzene <sup>[1]</sup> (= pseudocumene), 1,3,5-trimethylbenzene <sup>[1]</sup> (= mesitylene), benzene, bromobenzene <sup>[1]</sup> , ethylbenzene, isopropylbenzene, toluene, total xylenes, xylene ortho, xylene para + xylene meta	60 mL	2	1
<b>VOHs:</b> 1,1,1,2-tetrachloroethane <sup>[1]</sup> , 1,2-dichloroethane, bromoform, bromochloromethane <sup>[1]</sup> , chloroform, dibromochloromethane, dibromomethane <sup>[1]</sup> , dichlorobromomethane, tetrachloroethylene, trichloroethylene, THMs*, vinyl chloride	60 mL	2	1
<b>chlorobenzenes - light:</b> 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, chlorobenzene, dichlorobenzenes (sum of the 3 isomers), <b>chlorotoluenes:</b> 2-chlorotoluene, 3-chlorotoluene, 4-chlorotoluene, chlorotoluenes (sum of the 3 isomers), <b>VOHs:</b> 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,2-dibromoethane, 1,2-dichloroethylene (cis+trans), 1,2-dichloroethylene cis, 1,2-dichloroethylene trans, 1,2-dichloropropane, 1,3-dichloropropane <sup>[1]</sup> , 1,3-dichloropropene (cis+trans), 3-chloroprene (3-chloropropene), carbon tetrachloride, chloroprene, dichloromethane,, hexachlorobutadiene, hexachloroethane, methyl bromide (bromomethane), methyl ter-butyl ether (MTBE), sec-butylbenzene <sup>[1]</sup>	100 mL	2	1

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4Cb.1 (continued)</b>			
<b>Hexachlorobutadiene</b> <b>nitro-aromatics:</b> 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-nitrotoluene, nitrobenzene, <b>chlorobenzenes:</b> 1,2,4,5-tetrachlorobenzene, tetrachlorobenzenes (sum of the 3 isomers), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, trichlorobenzenes (sum of the 3 isomers), hexachlorobenzene, pentachlorobenzene	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

<b>PARTICULARITIES</b>
<p>‘Environment approval’: this is an additional proficiency test identical to the tests of programme 4C but at low concentration levels to meet the requirements of the French Order of 27/10/11 completed by the order of the 19/10/19 for the relevant parameters (as long as it is possible to maintain the quality of the test).</p> <p>‘Health approval’: the specific programme 92 provides concentration levels appropriate for atypical and non-atypical mineral waters for BTEX (benzene, toluene, xylene ortho, xylene para + xylene meta, total xylene, ethylbenzene) and some VOHs.</p> <p>*THM (= trihalomethanes): Sum of contents in chloroform + bromoform + dichlorobromomethane + dibromochloromethane.</p>

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
nitro-aromatics	analyse upon receipt
chlorobenzenes	D <sub>0</sub> +3
hexachlorobutadiene	D <sub>0</sub> +3
BTEX VOHs chlorobenzenes - light chlorotoluenes	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 20A: CHLOROPHENOLS IN FRESH WATERS



255 € excl. VAT – total amount for 2 tests (excluding transport costs)

36 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

**New:**

2,3-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 3,4,5-trichlorophenol

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M20A.1 - Natural water - sent in January 2023 - Refrigerated parcel</b>			
2-chlorophenol, 3-chlorophenol, 4-chlorophenol, chlorophenols (sum of the 3 isomers), <b>2,3-dichlorophenol<sup>[1]</sup></b> , 2,4-dichlorophenol, <b>2,6-dichlorophenol<sup>[1]</sup></b> , <b>3,4-dichlorophenol<sup>[1]</sup></b> , <b>3,5-dichlorophenol<sup>[1]</sup></b> , dichlorophenols (sum of the 6 isomers), <b>2,3,4-trichlorophenol<sup>[1]</sup></b> , <b>2,3,5-trichlorophenol<sup>[1]</sup></b> , <b>2,3,6-trichlorophenol<sup>[1]</sup></b> , 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, <b>3,4,5-trichlorophenol<sup>[1]</sup></b> , trichlorophenols (sum of the 6 isomers), pentachlorophenol, 4-chloro-3-methylphenol	1000 mL	2	1
<b>23M20A.2 - Natural water - sent in May 2023 - Refrigerated parcel</b>			
2-chlorophenol, 3-chlorophenol, 4-chlorophenol, chlorophenols (sum of the 3 isomers), <b>2,3-dichlorophenol<sup>[1]</sup></b> , 2,4-dichlorophenol, <b>2,6-dichlorophenol<sup>[1]</sup></b> , <b>3,4-dichlorophenol<sup>[1]</sup></b> , <b>3,5-dichlorophenol<sup>[1]</sup></b> , dichlorophenols (sum of the 6 isomers), <b>2,3,4-trichlorophenol<sup>[1]</sup></b> , <b>2,3,5-trichlorophenol<sup>[1]</sup></b> , <b>2,3,6-trichlorophenol<sup>[1]</sup></b> , 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, <b>3,4,5-trichlorophenol<sup>[1]</sup></b> , trichlorophenols (sum of the 6 isomers), pentachlorophenol, 4-chloro-3-methylphenol	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

**PARTICULARITIES**



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Chlorophenols

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 21A: ALKYLPHENOLS IN FRESH WATERS



185 € excl. VAT – total amount for 2 tests (excluding transport costs)

23 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M21A.1 - Natural water - sent in January 2023 - Refrigerated parcel</b>			
2-methylphenol [CAS 95-48-7], 4-methylphenol [CAS 106-44-5], 4-n-nonylphenol [CAS 104-40-5], 4-nonylphenols [CAS 84852-15-3], 4-tert-butylphenol [CAS 98-54-4], 4-tert-octylphenol [CAS 140-66-9], NP1EO - 4-nonylphenol monoethoxylate	1000 mL	2	1
<b>23M21A.2 - Natural water - sent in May 2023 - Refrigerated parcel</b>			
2-methylphenol [CAS 95-48-7], 4-methylphenol [CAS 106-44-5], 4-n-nonylphenol [CAS 104-40-5], 4-nonylphenols [CAS 84852-15-3], 4-tert-butylphenol [CAS 98-54-4], 4-tert-octylphenol [CAS 140-66-9], NP1EO - 4-nonylphenol monoethoxylate	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Alkylphénols

analyse upon receipt

## PROGRAMME 22A: CHLOROANILINES IN FRESH WATERS



155 € excl. VAT – total amount for 2 tests (excluding transport costs)

14 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **40 € excl. VAT** (excluding transport costs)

Parameters to analyse <i>(implemented in each proficiency test)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M22A.1 - Natural water - sent in January 2023 - Refrigerated parcel</b>			
2-chloroaniline, 3-chloroaniline, 4-chloroaniline, Chloroanilines (sum of the 3 isomers), 3,4-dichloroaniline, 4-chloro-2-nitroaniline	1000 mL	2	1
<b>23M22A.2 - Natural water - sent in May 2023 - Refrigerated parcel</b>			
2-chloroaniline, 3-chloroaniline, 4-chloroaniline, Chloroanilines (sum of the 3 isomers), 3,4-dichloroaniline, 4-chloro-2-nitroaniline	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Chloroanilines	analyse upon receipt
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## PROGRAMME 23A: ORGANOTIN COMPOUNDS IN FRESH WATERS



198 € excl. VAT – total amount for 2 tests (excluding transport costs)

16 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

**New:**

Diocetyl tin cation

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M23A.1 - Natural water - sent in February 2023 - Refrigerated parcel</b>			
monobutyltin cation, dibutyltin cation, <b>diocetyl tin cation<sup>[1]</sup></b> , tributyltin cation, triphenyltin cation, tetrabutyltin	1000 mL	2	1
<b>23M23A.2 - Natural water - sent in July 2023 - Refrigerated parcel</b>			
monobutyltin cation, dibutyltin cation, <b>diocetyl tin cation<sup>[1]</sup></b> , tributyltin cation, triphenyltin cation, tetrabutyltin	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Organotin compounds

analyse upon receipt

## PROGRAMME 24A: BROMINATED DIPHENYL ETHERS IN FRESH WATERS



245 € excl. VAT – total amount for 2 tests (excluding transport costs)

16 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M24A.1 - Natural water - sent in February 2023 - Refrigerated parcel</b>			
BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183, BDE-209	1000 mL	2	1
<b>23M24A.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183, BDE-209	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Brominated diphenyl ethers	analyse upon receipt
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## PROGRAMME 24C: HBCDD IN FRESH WATERS AND HBCDD, HBB IN WASTE WATERS



**392 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**14 participants** in 2022 – EXPERIENCE 4 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M24C.1 - Natural water - sent in April 2023 - Refrigerated parcel</b>			
alpha-HBCDD (alpha-hexabromocyclododecane) beta-HBCDD (beta-hexabromocyclododecane) gamma-HBCDD (gamma-hexabromocyclododecane) total HBCDD (total hexabromocyclododecane)	1000 mL	2	1
<b>23M24C.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
alpha-HBCDD (alpha-hexabromocyclododecane) <sup>[1]</sup> beta-HBCDD (beta-hexabromocyclododecane) <sup>[1]</sup> gamma-HBCDD (gamma-hexabromocyclododecane) <sup>[1]</sup> total HBCDD (total hexabromocyclododecane) HBB (hexabromobiphenyl) <sup>[1]</sup>	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water or waste water. The analyses have to be carried out with the reconstituted samples.

For the isomers of HBCDD in waste waters: alpha, beta and gamma, it is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

alpha-HBCDD, beta-HBCDD, gamma-HBCDD, total HBCDD, HBB

analyse upon receipt

## PROGRAMME 25A: BIPHENYL IN FRESH WATERS



211 € excl. VAT – total amount for 2 tests (excluding transport costs)

15 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M25A.1 - Natural water - sent in February 2023 - Refrigerated parcel</b>			
biphenyl	1000 mL	2	1
<b>23M25A.2 - Natural water - sent in November 2023 - Refrigerated parcel</b>			
biphenyl	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

biphenyl	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 26A: PHTHALATES IN FRESH WATERS



227 € excl. VAT – total amount for 2 tests (excluding transport costs)

31 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **60 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M26A.1 - Natural water - sent in February 2023 - Refrigerated parcel</b>			
BBzP (Butyl benzyl phthalate), DBP (Dibutylphthalate), DEHP (Di(2-ethylhexyl)phthalate), DEP (Diethylphthalate), DMP (Dimethylphthalate), DiBP (Diisobutylphthalate)	1000 mL	2	1
<b>23M26A.2 - Natural water - sent in November 2023 - Refrigerated parcel</b>			
BBzP (Butyl benzyl phthalate), DBP (Dibutylphthalate), DEHP (Di(2-ethylhexyl)phthalate), DEP (Diethylphthalate), DMP (Dimethylphthalate), DiBP (Diisobutylphthalate)	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Phthalates	analyse upon receipt
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## PROGRAMME 27A: C10-C13 CHLOROALKANES (SCCPs) IN FRESH WATERS



217 € excl. VAT – total amount for 2 tests (excluding transport costs)

12 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M27A.1 - Natural water - sent in April 2023 - Refrigerated parcel</b>			
C10-C13 chloroalkanes	1000 mL	2	1
<b>23M27A.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
C10-C13 chloroalkanes	1000 mL	2	1

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

C10-C13 chloroalkanes	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 28A: HALOACETIC ACIDS IN FRESH WATERS

The materials are suitable for the check of analyses in public distribution waters, spring waters and non-atypical natural mineral water.



**244 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**24 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M28A.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
bromoacetic acid, bromochloroacetic acid, bromodichloroacetic acid, chloroacetic acid, dibromoacetic acid, dibromochloroacetic acid <sup>[1]</sup> , dichloroacetic acid, tribromoacetic acid <sup>[1]</sup> , trichloroacetic acid, sum of the 5 haloacetic acids: chloroacetic acid + dichloroacetic acid + trichloroacetic acid + bromoacetic acid + dibromoacetic acid	250 mL	2	1
<b>23M28A.2 - Clean water - sent in October 2023 - Refrigerated parcel</b>			
bromoacetic acid, bromochloroacetic acid, bromodichloroacetic acid, chloroacetic acid, dibromoacetic acid, dibromochloroacetic acid <sup>[1]</sup> , dichloroacetic acid, tribromoacetic acid <sup>[1]</sup> , trichloroacetic acid, sum of the 5 haloacetic acids: chloroacetic acid + dichloroacetic acid + trichloroacetic acid + bromoacetic acid + dibromoacetic acid	250 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of clean water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

haloacetic acids

analyse upon receipt

## PROGRAMME 29A: EPICHLOROHYDRIN IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**185 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**19 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M29A.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
epichlorohydrin	100 mL	2	1
<b>23M29A.2 - Natural water - sent in December 2023 - Refrigerated parcel</b>			
epichlorohydrin	100 mL	2	1

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

epichlorohydrin	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 52: AOX IN WATERS



**331 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**40 participants** in 2022 – EXPERIENCE 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **45 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M52.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
AOX	500 mL	2	2
<b>23M52.2 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
AOX, SPE-AOX <sup>[1]</sup>	500 mL	2	2
<b>23M52.3 - Clean water - sent in September 2023 - Refrigerated parcel</b>			
AOX	500 mL	2	2
<b>23M52.4 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
AOX, SPE-AOX <sup>[1]</sup>	500 mL	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
AOX, SPE-AOX	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 54: TOXINS OF CYANOBACTERIA IN FRESH WATERS



1680 € excl. VAT – total amount for 2 tests (excluding transport costs)

16 participants in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **420 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M54.1 - Natural water - sent in March 2023 - Refrigerated parcel</b>			
microcystin-LR, microcystin-RR, microcystin-YR microcystins by ELISA <sup>[1]</sup> test	1000 mL	2	2
<b>23M54.2 - Natural water - sent in August 2023 - Refrigerated parcel</b>			
microcystin-LR, microcystin-RR, microcystin-YR microcystins by ELISA <sup>[1]</sup> test	1000 mL	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES

For the microcystins' analyses by ELISA test, it is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, only an overview of the data will be presented in the test report (no z-scores calculation).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

microcystin-LR, microcystin-RR, microcystin-YR  
microcystins by ELISA<sup>[1]</sup> test

D<sub>0</sub>+6

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 55: GLYPHOSATE, AMPA AND OTHER HERBICIDES IN FRESH WATERS

The materials are suitable for the check of analyses in clear freshwaters, public drinking waters, spring waters and non-atypical natural mineral waters.



**444 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**30 participants** in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **115 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M55.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
AMPA, aminotriazole, glufosinate, glyphosate	1000 mL	2	2
<b>23M55.2 - Clean water - sent in August 2023 - Refrigerated parcel</b>			
AMPA, aminotriazole, glufosinate, glyphosate	1000 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

AMPA, aminotriazole, glufosinate, glyphosate	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 57: PHARMACEUTICALS IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**807 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**30 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **205 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M57.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
1-hydroxy ibuprofen <sup>[1]</sup> , 2-hydroxy ibuprofen <sup>[1]</sup> , acetazolamide <sup>[1]</sup> , caffeine, cyclophosphamide, erythromycin, estrone, ethynylestradiol, fenofibric acid, ibuprofen, lorazepam, metformin, metoprolol, metronidazole, oxazepam, paracetamol, sotalol, sulfamethazine, sulfamethoxazole	1000 mL	2	2
1,7-dimethylxanthine <sup>[1]</sup> , acetylsalicylic acid <sup>[1]</sup> , atenolol, carbamazepine, carbamazepine epoxide, carboxyibuprofen <sup>[1]</sup> , ciprofloxacin <sup>[1]</sup> , cotinine, diazepam, diclofenac, ketoprofen, niflumic acid, norethindrone, ofloxacin, tramadol, triclocarban	1000 mL	2	2
<b>23M57.2 - Natural water - sent in August 2023 - Refrigerated parcel</b>			
1-hydroxy ibuprofen <sup>[1]</sup> , 2-hydroxy ibuprofen <sup>[1]</sup> , acetazolamide <sup>[1]</sup> , caffeine, cyclophosphamide, erythromycin, estrone, ethynylestradiol, fenofibric acid, ibuprofen, lorazepam, metformin, metoprolol, metronidazole, oxazepam, paracetamol, sotalol, sulfamethazine, sulfamethoxazole	1000 mL	2	2
1,7-dimethylxanthine <sup>[1]</sup> , acetylsalicylic acid <sup>[1]</sup> , atenolol, carbamazepine, carbamazepine epoxide, carboxyibuprofen <sup>[1]</sup> , ciprofloxacin <sup>[1]</sup> , cotinine, diazepam, diclofenac, ketoprofen, niflumic acid, norethindrone, ofloxacin, tramadol, triclocarban	1000 mL	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

**PARTICULARITIES**



You will receive **two concentrated solutions** in addition to the bottles of water. The analyses have to be carried out with the reconstituted samples.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Pharmaceuticals

analyse upon receipt

## PROGRAMME 58: BISPHENOL A AND S IN FRESH WATERS

The materials are suitable for the check of analyses in public distribution waters, spring waters and non-atypical natural mineral water.



**205 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**24 participants** in 2022 – EXPERIENCE 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M58.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
bisphenol A, bisphenol S	1000 mL	2	1
<b>23M58.2 - Clean water - sent in August 2023 - Refrigerated parcel</b>			
bisphenol A, bisphenol S	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of clean water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

bisphenol A, bisphenol S	D <sub>0</sub> +8
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 59: PERFLUORINATED COMPOUNDS IN FRESH WATERS



479 € excl. VAT – total amount for 2 tests (excluding transport costs)

39 participants in 2022 – EXPERIENCE 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **120 € excl. VAT** (excluding transport costs)

**New:**

PFBS [CAS 375-73-5], PFDoDS [CAS 79780-39-5], PFHpS [CAS 375-92-8], PFTrDS [CAS 791563-89-8], PFUnDS [CAS 749786-16-1]

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M59.1 - Natural water - sent in May 2023 - Refrigerated parcel</b>			
PFBA [CAS 375-22-4], <b>PFBS<sup>[1]</sup> [CAS 375-73-5]</b> , PFDA [CAS 335-76-2], PFDS [CAS 335-77-3], PFDoDA [CAS 307-55-1] (=PFDoA), <b>PFDoDS<sup>[1]</sup> [CAS 79780-39-5]</b> , PFHpA [CAS 375-85-9], <b>PFHpS<sup>[1]</sup> [CAS 375-92-8]</b> , PFHxA [CAS 307-24-4], PFHxS [CAS 355-46-4] (=PFHS), PFNA [CAS 375-95-1], PFNS [CAS 68259-12-1], PFOA [CAS 335-67-1], PFOS [CAS 1763-23-1], PFPeA [CAS 2706-90-3], PFPeS [CAS 2706-91-4], PFTrDA [CAS 72629-94-8], <b>PFTrDS<sup>[1]</sup> [CAS 791563-89-8]</b> , PFUnDA [CAS 2058-94-8], <b>PFUnDS<sup>[1]</sup> [CAS 749786-16-1]</b>	1000 mL	2	1
<b>23M59.2 - Natural water - sent in September 2023 - Refrigerated parcel</b>			
PFBA [CAS 375-22-4], <b>PFBS<sup>[1]</sup> [CAS 375-73-5]</b> , PFDA [CAS 335-76-2], PFDS [CAS 335-77-3], PFDoDA [CAS 307-55-1] (=PFDoA), <b>PFDoDS<sup>[1]</sup> [CAS 79780-39-5]</b> , PFHpA [CAS 375-85-9], <b>PFHpS<sup>[1]</sup> [CAS 375-92-8]</b> , PFHxA [CAS 307-24-4], PFHxS [CAS 355-46-4] (=PFHS), PFNA [CAS 375-95-1], PFNS [CAS 68259-12-1], PFOA [CAS 335-67-1], PFOS [CAS 1763-23-1], PFPeA [CAS 2706-90-3], PFPeS [CAS 2706-91-4], PFTrDA [CAS 72629-94-8], <b>PFTrDS<sup>[1]</sup> [CAS 791563-89-8]</b> , PFUnDA [CAS 2058-94-8], <b>PFUnDS<sup>[1]</sup> [CAS 749786-16-1]</b>	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			



**PARTICULARITIES**



You will receive a concentrated solution in addition to the bottles of natural water. The analyses have to be carried out with the reconstituted samples.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Perfluorinated compounds

D<sub>0</sub>+17

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 64: PAHS AND PCBs IN FRESH WATERS

The materials are suitable for the control of public drinking waters, spring waters and non-atypical natural mineral waters.



**838 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**48 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **210 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M64.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
<b>PAHs:</b> 2-methylfluoranthene, 2-methylnaphtalene, acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene	1000 mL	2	1
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180, congener 194	1000 mL	2	1
<b>23M64.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
<b>PAHs:</b> 2-methylfluoranthene, 2-methylnaphtalene, acenaphtene, acenaphtylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene	1000 mL	2	1
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180, congener 194	1000 mL	2	1

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

PAHs, PCBs

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65A: PESTICIDES AND DEGRADATION RESIDUES - LIST 1 - IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**509 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**51 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **130 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter*
	Volume	Number	
<b>23M65A.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 1	1000 mL	4	1
<b>23M65A.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 1	1000 mL	4	1

### PARTICULARITIES

\* **Particularity of the test design:** You have 2L of sample (2 bottles of 1L) to carry out one analysis of all the parameters.

**Pesticides and degradation residues - list 1:** 2,4'-DDD , 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aclonifen, alachlor, aldrin, alpha-endosulfan, alpha-HCH, anthraquinone, beta-endosulfan, beta-HCH, bifenox, chlordane (total), chlordecone, chlorfenvinphos, chlormephos, chlorpropham, chlorpyrifos-ethyl, chlorpyrifos-methyl, cis-chlordane (CAS 5103-71-9), cypermethrin, delta-HCH, deltamethrin, demeton-O<sup>[1]</sup>, diazinon, dichlorvos, diclofop methyl<sup>[1]</sup>, dieldrin, endosulfan (total), endrin, epsilon HCH, ethion, ethofumesate, ethoprophos, fenitrothion, fenvalerate, flurochloridone, HCH total (sum of isomers alpha+beta+gamma+delta), heptachlorepoxyde (total), heptachlorepoxyde endo trans, heptachlorepoxyde exo cis, heptachlor, ioxynil octanoate, iprodione, isodrin, lambda-cyhalothrin, lindane (gamma-HCH), malathion, oxadiazon, parathion-ethyl, parathion-methyl, pendimethalin, piperonyl butoxyde, procymidone, pyrimiphos-methyl, quinoxifen, trans-chlordane (CAS 5103-74-2), tributyl phosphate, trifluralin

<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

diclofop methyl, iprodione, procymidone	D <sub>0</sub> +1
Pesticides and degradation residues - list 1, except diclofop methyl, iprodione, procymidone	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65B: PESTICIDES AND DEGRADATION RESIDUES - LIST 2 - IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**540 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**52 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **140 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter*
	Volume	Number	
<b>23M65B.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 2	1000 mL	4	1
<b>23M65B.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 2	1000 mL	4	1

### PARTICULARITIES

\* **Particularity of the test design:** You have 2L of sample (2 bottles of 1L) to carry out one analysis of all the parameters.

**Pesticides and degradation residues - list 2:** 2,4-D, MCPA, 2,6-dichlorobenzamide, 2-hydroxyatrazine, acetochlor, ametryn, atrazine, azoxystrobin, bentazon, boscalid, bromacil, carbendazim, carbofuran, chloridazone, chlortoluron, clomazone, cyanazine, cyproconazole, cyprodinil, deisopropylatrazine, desethylatrazine, desethylterbutylazine, dichlorprop, difenoconazole, diflufenicanil, dimethachlor, dimethenamid, dimethomorph, diuron, epoxiconazole, fenpropidin, flusilazole, hexaconazole, hexazinone, imidaclopride, isoproturon, isoproturon-didemethyl (= IPPU), kresoxim-methyl, lenacile, linuron, mecoprop (= MCP), metamitron, metazachlor, methabenzthiazuron, methomyl, metobromuron, metolachlor, metoxuron, metribuzin, monuron, napropamide, oxadixyl, prometryn, propachlor<sup>[1]</sup>, propazine, propiconazole, propyzamide, pyrimethanil, simazine, tebuconazole, terbumeton, terbuthylazine, terbutryn, tetraconazole, tolyltriazole

<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Pesticides and degradation residues - list 2

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65C: PESTICIDES AND DEGRADATION RESIDUES - LIST 3 - IN FRESH WATERS

The materials are suitable for the check of the analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**453 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**42 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **115 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter*
	Volume	Number	
<b>23M65C.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 3	1000 mL	4	1
<b>23M65C.2 - Natural water - sent in November 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 3	1000 mL	4	1

### PARTICULARITIES

\* **Particularity of the test design:** You have 2L of sample (2 bottles of 1L) to carry out one analysis of all the parameters.

**Pesticides and degradation residues - list 3:** 1-(3,4-dichlorophenyl)-3-methylurea(= demethyl diuron), asulame, atrazine 2-hydroxy-desethyl, atrazine deisopropyl desethyl, benfluralin<sup>[1]</sup>, benzotriazole, bromoxynil, cybutryn, cymoxanil, dicamba, dichlormid, dimethoate, dinoterbe, ethidimuron, fenarimol, fenoxycarb, fipronil, flonicamid, florasulam, fludioxonil, flufenacet (=thiaflumamide), fluroxypyr, flurtamone, foramsulfuron, fosthiazate, hydroxyterbuthylazine, imazalil, imazamox, iodosulfuron-methyl, ioxynil, isoxaflutole, mercaptodimethur (= methiocarb), mesosulfuron-methyl, mesotrione, metaldehyde, metconazole, metsulfuron methyl, nicosulfuron, omethoate, oryzalin, picloram, pirimicarb, prochloraz, propamocarb, propham, prosulfocarb, prosulfuron, quinmerac, rimsulfuron, spiroxamine, sulcotrione, sulfosulfuron, tebutame, terbumeton desethyl, thiabendazole, thiamethoxam, thifensulfuron methyl, triadimenol, triclopyr, triclosan, trinexapac-ethyl

<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
isoxaflutole, fenoxycarb, mercaptodimethur, oryzalin, rimsulfuron	D <sub>0</sub> +1
Pesticides and degradation residues - list 3, except isoxaflutole, fenoxycarb, mercaptodimethur, oryzalin, rimsulfuron	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65D: PESTICIDES AND DEGRADATION RESIDUES - LIST 4 - IN FRESH WATERS

The materials are suitable for the control of public drinking waters, spring waters and non-atypical natural mineral waters.



**258 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**26 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M65D.1 - Clean water - sent in February 2023 - Refrigerated parcel</b>			
beflubutamid, benoxacor, bixafen, cadusafos, clethodim <sup>[1]</sup> , daminozide, dichlobenil, fipronil sulfone, galaxolide, maleic hydrazide, N-butylbenzenesulfonamide (NBBS), N,N-dimethyl-N'-P-tolylsulphamide (DMST), triflurosulfuron-methyl	1000 mL	2	1
chlormequat, diquat, fosetyl aluminium, mepiquat, paraquat <sup>[1]</sup>	250 mL	2	1
<b>23M65D.2 - Clean water - sent in December 2023 - Refrigerated parcel</b>			
beflubutamid, benoxacor, bixafen, cadusafos, clethodim <sup>[1]</sup> , daminozide, dichlobenil, fipronil sulfone, galaxolide, maleic hydrazide, N-butylbenzenesulfonamide (NBBS), N,N-dimethyl-N'-P-tolylsulphamide (DMST), triflurosulfuron-methyl	1000 mL	2	1
chlormequat, diquat, fosetyl aluminium, mepiquat, paraquat <sup>[1]</sup>	250 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES

Some molecules are analysed by few laboratories. If the number of results is lower than 8, the assigned value will be the spiking value and the standard deviation for proficiency assessment will be estimated from reproducibility values observed during previous tests.



<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
Pesticides and degradation residues – list 4	analyse upon receipt

## PROGRAMME 65E: PARABENS IN FRESH WATERS

The materials are suitable for the check of analyses in freshwaters, public drinking waters, spring waters and non-atypical natural mineral waters.



**211 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**10 participants** in 2022 – EXPERIENCE 4 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M65E.1 - Clean water - sent in February 2023 - Refrigerated parcel</b>			
ethylparaben, methylparaben, propylparaben	1000 mL	2	2
<b>23M65E.2 - Natural water - sent in October 2023 - Refrigerated parcel</b>			
ethylparaben, methylparaben, propylparaben	1000 mL	2	2

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

ethylparaben, methylparaben, propylparaben	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65F: PESTICIDES AND DEGRADATION RESIDUES - LIST 5 - IN FRESH WATERS

The materials are suitable for the control of fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.

**761 € HT** – total amount for **2 tests** (excluding transport costs)

**36 participants** in 2022 – EXPERIENCE: 1 YEAR



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **225 € excl. VAT** for 23M65F.1 and **160 € excl. VAT** for 23M65F.2 (excluding transport costs)

**New:**

acifluorfen, aldicarb-sulfone, aldicarb-sulfoxide, atrazine deisopropyl 2-hydroxy, buturon, clodinafop-propargyl, clopyralid, cloquintocet-mexyl, desmethyl-norflurazon, diethofencarb, fluxapyroxad, imazametabenz, imazamethabenz-methyl, mepanipyrim (mepanipyr), methoxyfenozide, metrafenone, molinate, neburon, N,N-Dimethylsulfamide (DMS), oxamyl, prometon, secbumeton, simetryn, spirotetramat, tebuthiuron, terbuthylazine desethyl-2-hydroxy, triadiméfon, triflumuron, triticonazole

Parameters to analyse <i>(implemented once during the year and in 2 deliveries)</i>	Bottle		Number of measurements per parameter
	Volume	Number	
<b>23M65F.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 5.1	1000 mL	4*	1
<b>23M65F.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 5.2	1000 mL	4	1

### PARTICULARITIES

\* **Particularity of the test design for 23M65F.1:** You have 2L of sample (2 bottles of 1L) to carry out one analysis of all the parameters.

#### **Pesticides and degradation residues - list 5.1:**

2,4,5-T, 2,4-DB, 2,4-MCPB (MCPB), 3-hydroxy-carbofuran, acetamiprid, aldicarb, amidosulfuron, benalaxyl, bromuconazole, bupirimate, carbaryl, carbetamide, carboxine, carfentrazone-ethyl, chlorantraniliprole, chlorbromuron, chloridazone desphenyl, chloridazone methyl desphenyl, chlorothalonil (daconil or tetrachloroisophthalonitrile), chlorothalonil SA (chlorothalonil-M-R417888), chlorothalonil-4-hydroxy (chlorothalonil-M-R182281), chlorothalonil-M-R471811, chloroxuron, clothianidin, cycloxydim, desmethylisoproturon (1-(4-isopropylphenyl)-3-methylurea or IPU-1CH3), desmetryn, didemethyldiuron (3,4-DCPU or DCPU or 3,4-dichlorophenylurea), diflubenuron (difluron), dimefuron, dinoseb (DNBP), fenbuconazole, fenpropimorph, fenuron (PDU), flazasulfuron (shibagen), fluazifop, fluazifop-P-butyl, fluoxastrobine, fluquinconazole, flutriafol, iprovalicarb, isoxaben, metalaxyl, monolinuron, myclobutanil, norflurazon, paclobutrazole, penconazole, pencycuron, picoxystrobine, pinoxaden, propanil (3,4-DCPA or DCPA), propoxur, pyraclostrobine, pyroxsulame, quintozone (terrachlor or pentachloronitrobenzene PCNB), sebuthylazine, simazine-hydroxy, tebufenozide, thiacloprid, triallate, triasulfuron, tribenuron-methyl (tribenuron), trifloxystrobine, tritosulfuron (biathlon), vinclozoline, zoxamide (zoxium)

**Pesticides and degradation residues - list 5.2:**

acifluorfen, aldicarb-sulfone, aldicarb-sulfoxide, atrazine deisopropyl 2-hydroxy, buturon, clodinafop-propargyl, clopyralid, cloquintocet-mexyl, desmethyl-norflurazon, diethofencarb, fluxapyroxad, imazametabenz, imazamethabenz-methyl, mepanipyrim (mepanipyr), methoxyfenozide, metrafenone, molinate, neburon, N,N-Dimethylsulfamide (DMS), oxamyl, prometon, secbumeton, simetryn, spirotetramat, tebuthiuron, terbuthylazine desethyl-2-hydroxy, triadiméfon, triflumuron, triticonazole

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
3-hydroxy-carbofuran, chloridazone desphenyl, chloridazone methyl desphenyl, desmethylisoproturon, didemethyldiuron, fenuron, flazasulfuron, norflurazon, sebuthylazine, simazine-hydroxy, vinclozoline	D <sub>0</sub> +1
2,4,5-T, 2,4-DB, 2,4-MCPB, acetamiprid, aldicarb, amidosulfuron, benalaxyl, bromuconazole, bupirimate, carbaryl, carbetamide, carboxine, carfentrazone-ethyl, chlorantraniliprole, chlorbromuron, chlorothalonil, chlorothalonil SA, chlorothalonil-4-hydroxy, chlorothalonil-M-R471811, chloroxuron, clothianidin, cycloxydim, desmethylisoproturon, desmetryne, diflubenzuron, diméfur, dinoseb, fenbuconazole, fenpropimorphe, fluazifop, fluazifop-P-butyl, fluoxastrobine, fluquinconazole, flutriafol, iprovalicarb, isoxaben, metalaxyl, monolinuron, myclobutanil, paclobutrazole, penconazole, pencycuron, picoxystrobine, pinoxaden, propanil, propoxur, pyraclostrobine, pyroxsulame, quintozone, tebufenozide, thiacloprid, triallate, triasulfuron, tribenuron-methyl, trifloxystrobine, tritosulfuron, zoxamide	D <sub>0</sub> +3
acifluorfen, aldicarb-sulfone, aldicarb-sulfoxide, atrazine deisopropyl 2-hydroxy, buturon, clodinafop-propargyl, clopyralid, cloquintocet-mexyl, desmethyl-norflurazon, diethofencarb, fluxapyroxad, imazametabenz, imazamethabenz-methyl, mepanipyrim (mepanipyr), methoxyfenozide, metrafenone, molinate, neburon, N,N-Dimethylsulfamide (DMS), oxamyl, prometon, secbumeton, simetryn, spirotetramat, tebuthiuron, terbuthylazine desethyl-2-hydroxy, triadiméfon, triflumuron, triticonazole	From 1 to 3 days after samples' dispatch (will be specified later)

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 65G: PESTICIDES AND DEGRADATION RESIDUES - LIST 6 - IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.

**145 € excl. VAT** – total amount for 1 test (excluding transport costs)

**26 participants** in 2022 – EXPERIENCE: 1 YEAR



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

**New:** ethephon, fonofos, oxychlorane, oxyfluorfen, sulfotep

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M65G.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
Pesticides and degradation residues - list 6	1000 mL	2	1

### PARTICULARITIES

#### Pesticides and degradation residues - list 6:

Azinphos-ethyl, azinphos-methyl, bifenthrine, bromophos-ethyl, bromophos-methyl, cyfluthrine, dicofol (kelthane), endosulfan sulfate, **ethephon**, fenpropathrine, fenthion, **fonofos**, isofenphos, methidathion, methoxychlor (DMDT or methoxy-DDT), mevinphos (phosdrin or duraphos), **oxychlorane**, **oxyfluorfen**, permethrin, pethoxamid, phosalone (benzphos or zolone), pyrimiphos-ethyl, **sulfotep**, terbuphos, triazophos, vamidothion

#### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

dicofol, endosulfan sulfate, methoxychlor, permethrin, phosalone, terbuphos	D <sub>0</sub> +1
azinphos-ethyl, azinphos-methyl, bifenthrine, bromophos-ethyl, bromophos-methyl, cyfluthrine, fenpropathrine, fenthion, isofenphos, méthidathion, mevinphos, pethoxamid, pyrimiphos-ethyl, triazophos, vamidothion	D <sub>0</sub> +3
<b>ethephon, fonofos, oxychlorane, oxyfluorfen, sulfotep</b>	From 1 to 3 days after samples' dispatch (will be specified later)

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 66: THMs IN SWIMMING POOL WATERS



170 € excl. VAT – total amount for 2 tests (excluding transport costs)

44 participants in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **45 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M66.1 - Swimming pool water - sent in May 2023 - Refrigerated parcel</b>			
bromoform, chloroform, dibromochloromethane, dichlorobromomethane, trihalomethanes (THMs)	100 mL	2	1
<b>23M66.2 - Swimming pool water - sent in October 2023 - Refrigerated parcel</b>			
bromoform, chloroform, dibromochloromethane, dichlorobromomethane, trihalomethanes (THMs)	100 mL	2	1

### PARTICULARITIES

**THMs (= trihalomethanes):**

sum of the contents of chloroform + bromoform + dichlorobromomethane + dibromochloromethane

**Recommended period to start the sample treatment (PRDT):**

time interval during which the quality of test materials is optimal (in number of days)

bromoform, chloroform, dibromochloromethane, dichlorobromomethane, trihalomethanes (THMs)	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 67: ACRYLAMIDE IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**188 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**20 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M67.1 – Clean water - sent in February 2023 - Refrigerated parcel</b>			
acrylamide	1000 mL	2	2
<b>23M67.2 - Natural water - sent in September 2023 - Refrigerated parcel</b>			
acrylamide	1000 mL	2	2

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

acrylamide	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 69: METABOLITES OF CHLOROACETAMIDES IN FRESH WATERS

The materials are suitable for the check of fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters



**386 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**27 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **100 € excl. VAT** (excluding transport costs)

**New:**

Dimethachlor CGA 369873, Dimethachlor ESA (Dimethachlor CGA 354742), Propachlor ESA, Propachlor OXA

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M69.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
Acetochlor ESA, Acetochlor OXA, Alachlor ESA, Alachlor OXA, <b>Dimethachlor CGA 369873<sup>[1]</sup></b> , <b>Dimethachlor ESA<sup>[1]</sup></b> (Dimethachlor CGA 354742), Dimethachlor OXA, Dimethenamid ESA, Dimethenamid OXA, Flufenacet ESA, Flufenacet OXA, Metazachlor ESA, Metazachlor OXA, Metolachlor ESA, Metolachlor NOA 413173 <sup>[1]</sup> , Metolachlor OXA, <b>Propachlor ESA<sup>[1]</sup></b> , <b>Propachlor OXA<sup>[1]</sup></b>	1000 mL	2	1
<b>23M69.2 - Natural water - sent in December 2023 - Refrigerated parcel</b>			
Acetochlor ESA, Acetochlor OXA, Alachlor ESA, Alachlor OXA, <b>Dimethachlor CGA 369873<sup>[1]</sup></b> , <b>Dimethachlor ESA<sup>[1]</sup></b> (Dimethachlor CGA 354742), Dimethachlor OXA, Dimethenamid ESA, Dimethenamid OXA, Flufenacet ESA, Flufenacet OXA, Metazachlor ESA, Metazachlor OXA, Metolachlor ESA, Metolachlor NOA 413173 <sup>[1]</sup> , Metolachlor OXA, <b>Propachlor ESA<sup>[1]</sup></b> , <b>Propachlor OXA<sup>[1]</sup></b>	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Metabolites of chloroacetamides

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## ORGANIC POLLUTANTS IN WASTE WATERS



## PROGRAMME 4E: VOLATILE ORGANOHALOGENS AND BENZENE DERIVATIVES IN WASTE WATERS



**559 € excl. VAT** – total amount for 1 test (excluding transport costs)

**32 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **280 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4E.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
<b>BTEX:</b> benzene, ethylbenzene, isopropylbenzene, toluene, xylene ortho, xylene para + xylene meta, total xylenes	60 mL	2	1
<b>VOHs:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, vinyl chloride	60 mL	2	1
<b>chlorobenzenes - light:</b> 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, chlorobenzene, dichlorobenzenes (sum of the 3 isomers) <b>chlorotoluenes:</b> 2-chlorotoluene, 3-chlorotoluene, 4-chlorotoluene, chlorotoluenes (sum of the 3 isomers), <b>VOHs:</b> 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,2-dichloroethylene (cis+trans), 1,2-dichloroethylene cis, 1,2-dichloroethylene trans, 3-chloroprene (3-chloropropene), carbon tetrachloride, chloroprene, dichloromethane, hexachlorobutadiene, hexachloroethane	100 mL	2	1
<b>hexachlorobutadiene</b> <b>nitro-aromatics:</b> 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2-nitrotoluene, nitrobenzene <b>chlorobenzenes:</b> 1,2,4,5-tetrachlorobenzene, tetrachlorobenzenes (sum of the 3 isomers), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, trichlorobenzenes (sum of the 3 isomers), hexachlorobenzene, pentachlorobenzene	1000 mL	2	1

## PARTICULARITIES



For the group of parameter: chlorobenzenes and nitro-aromatics, you will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

'Environment approval': register also for the programme 4Eb. The parameters concerned by the French Order of the 27/10/11 completed by the order of the 19/10/19 will be at low concentration levels.

### Recommended period to start the sample treatment (PRDT): time interval during which the quality of test materials is optimal (in number of days)

nitro-aromatics	analyse upon receipt
chlorobenzenes	D <sub>0</sub> +3
hexachlorobutadiene	D <sub>0</sub> +3
BTEX VOHs chlorobenzenes - light chlorotoluenes	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 4Eb: VOLATILE ORGANOHALOGENS AND BENZENE DERIVATIVES IN WASTE WATERS AT LOW CONCENTRATION LEVELS



**314 € excl. VAT** – total amount for 1 test (excluding transport costs)

**34 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **160 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4Eb.1 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
<b>BTEX:</b> benzene, ethylbenzene, isopropylbenzene, toluene, xylene ortho, xylene para + xylene meta, total xylenes	60 mL	2	1
<b>VOHs:</b> 1,2-dichloroethane, bromoform, chloroform, dibromochloromethane, dichlorobromomethane, tetrachloroethylene, trichloroethylene, vinyl chloride	60 mL	2	1
<b>chlorobenzenes - light:</b> 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, chlorobenzene, dichlorobenzenes (sum of the 3 isomers) <b>chlorotoluenes:</b> 2-chlorotoluene, 3-chlorotoluene, 4-chlorotoluene, chlorotoluenes (sum of the 3 isomers), <b>VOHs:</b> 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,2-dichloroethylene (cis+trans), 1,2-dichloroethylene cis, 1,2-dichloroethylene trans, 3-chloroprene (3-chloropropene), carbon tetrachloride, chloroprene, dichloromethane, hexachlorobutadiene, hexachloroethane	100 mL	2	1
<b>hexachlorobutadiene</b> <b>nitro-aromatics:</b> 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2-nitrotoluene, nitrobenzene <b>chlorobenzenes:</b> 1,2,4,5-tetrachlorobenzene, tetrachlorobenzenes (sum of the 3 isomers), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, trichlorobenzenes (sum of the 3 isomers), hexachlorobenzene, pentachlorobenzene	1000 mL	2	1

## PARTICULARITIES



For the group of parameters: chlorobenzenes and nitro-aromatics, you will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

'Environment approval': this is an additional proficiency test identical to the test of programme 4E but at low concentration levels to meet the requirements of the French Order of 27/10/11 completed by the order of the 19/10/19 for the relevant parameters (as long as it is possible to maintain the quality of the test).

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
nitro-aromatics	analyse upon receipt
chlorobenzenes	D <sub>0</sub> +3
hexachlorobutadiene	D <sub>0</sub> +3
BTEX VOHs chlorobenzenes - light chlorotoluenes	D <sub>0</sub> +3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 4F: METHANOL IN WASTE WATERS

**95 € excl. VAT** – total amount for 1 test (excluding transport costs)

**5 participants** in 2022 – EXPERIENCE 4 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M4F.1 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
methanol	60 mL	2	1

### PARTICULARITIES

It is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

methanol	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 20B: CHLOROPHENOLS IN WASTE WATERS



187 € excl. VAT – total amount for 2 tests (excluding transport costs)

21 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M20B.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
2-chlorophenol, 3-chlorophenol, 4-chlorophenol, chlorophenols (sum of the 3 isomers), 2,4-dichlorophenol, dichlorophenols (sum of the 6 isomers), 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, trichlorophenols (sum of the 6 isomers), pentachlorophenol, 4-chloro-3-methylphenol	1000 mL	2	1
<b>23M20B.2 - Waste water - sent in May 2023- Refrigerated parcel</b>			
2-chlorophenol, 3-chlorophenol, 4-chlorophenol, chlorophenols (sum of the 3 isomers), 2,4-dichlorophenol, dichlorophenols (sum of the 6 isomers), 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, trichlorophenols (sum of the 6 isomers), pentachlorophenol, 4-chloro-3-methylphenol	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Chlorophenols

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 21B: ALKYLPHENOLS IN WASTE WATERS



**183 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**15 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M21B.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
4-n-nonylphenol [CAS 104-40-5], 4-nonylphenols [CAS 84852-15-3], 4-tert-octylphenol [CAS 140-66-9], nonylphenols (mix of linear or branched), p-(n-octyl)phenol [CAS 1806-26-4], p-octylphenols (mix of isomers) <sup>[1]</sup>	1000 mL	2	1
<b>23M21B.2 - Waste water - sent in May 2023 - Refrigerated parcel</b>			
4-n-nonylphenol [CAS 104-40-5], 4-nonylphenols [CAS 84852-15-3], 4-tert-octylphenol [CAS 140-66-9], nonylphenols (mix of linear or branched), p-(n-octyl)phenol [CAS 1806-26-4], p-octylphenols (mix of isomers) <sup>[1]</sup>	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Alkylphenols

analyse upon receipt

## PROGRAMME 22B: CHLOROANILINES IN WASTE WATERS



155 € excl. VAT – total amount for 2 tests (excluding transport costs)

8 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **40 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M22B.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
2-chloroaniline, 3-chloroaniline, 4-chloroaniline, Chloroanilines (sum of the 3 isomers), 3,4-dichloroaniline, 4-chloro-2-nitroaniline	1000 mL	2	1
<b>23M22B.2 - Waste water - sent in May 2023 - Refrigerated parcel</b>			
2-chloroaniline, 3-chloroaniline, 4-chloroaniline, Chloroanilines (sum of the 3 isomers), 3,4-dichloroaniline, 4-chloro-2-nitroaniline	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

For some parameters, it is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Chloroanilines	analyse upon receipt
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## PROGRAMME 23B: ORGANOTIN COMPOUNDS IN WASTE WATERS



**185 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**18 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M23B.1 - Waste water - sent in February 2023 - Refrigerated parcel</b>			
monobutyltin cation, dibutyltin cation, tributyltin cation, triphenyltin cation, tetrabutyltin	1000 mL	2	1
<b>23M23B.2 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
monobutyltin cation, dibutyltin cation, tributyltin cation, triphenyltin cation, tetrabutyltin	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Organotin compounds	analyse upon receipt
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## PROGRAMME 24B: BROMINATED DIPHENYL ETHERS IN WASTE WATERS



**245 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**9 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M24B.1 - Waste water - sent in February 2023 - Refrigerated parcel</b>			
BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183, BDE-209	1000 mL	2	1
<b>23M24B.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183, BDE-209	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Brominated diphenyl ethers	analyse upon receipt
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## PROGRAMME 24C: HBCDD IN FRESH WATERS AND HBCDD, HBB IN WASTE WATERS



**392 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**14 participants** in 2022 – EXPERIENCE 4 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M24C.1 - Natural water - sent in April 2023 - Refrigerated parcel</b>			
alpha-HBCDD (alpha-hexabromocyclododecane) beta-HBCDD (beta-hexabromocyclododecane) gamma-HBCDD (gamma-hexabromocyclododecane) total HBCDD (total hexabromocyclododecane)	1000 mL	2	1
<b>23M24C.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
alpha-HBCDD (alpha-hexabromocyclododecane) <sup>[1]</sup> beta-HBCDD (beta-hexabromocyclododecane) <sup>[1]</sup> gamma-HBCDD (gamma-hexabromocyclododecane) <sup>[1]</sup> total HBCDD (total hexabromocyclododecane) HBB (hexabromobiphenyl) <sup>[1]</sup>	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of natural water or waste water. The analyses have to be carried out with the reconstituted samples.

For the isomers of HBCDD in waste waters: alpha, beta and gamma, it is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

alpha-HBCDD, beta-HBCDD, gamma-HBCDD, total HBCDD, HBB

analyse upon receipt

## PROGRAMME 25B: BIPHENYL IN WASTE WATERS



211 € excl. VAT – total amount for 2 tests (excluding transport costs)

9 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M25B.1 - Waste water - sent in February 2023 - Refrigerated parcel</b>			
biphenyl	1000 mL	2	1
<b>23M25B.2 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
biphenyl	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

biphenyl	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 26B: DEHP IN WASTE WATERS



**215 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**15 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M26B.1 - Waste water - sent in February 2023 - Refrigerated parcel</b>			
DEHP (Di(2-ethylhexyl)phthalate)	1000 mL	2	1
<b>23M26B.2 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
DEHP (Di(2-ethylhexyl)phthalate)	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

DEHP	analyse upon receipt
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## PROGRAMME 27B: C10-C13 CHLOROALKANES (SCCPs) IN WASTE WATERS



**215 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**7 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M27B.1 - Waste water - sent in April 2023 - Refrigerated parcel</b>			
C10-C13 chloroalkanes	1000 mL	2	1
<b>23M27B.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
C10-C13 chloroalkanes	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

It is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

C10-C13 chloroalkanes

analyse upon receipt

## PROGRAMME 28B: CHLOROACETIC ACID IN WASTE WATERS



**183 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**7 participants** in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M28B.1 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
chloroacetic acid	250 mL	2	1
<b>23M28B.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
chloroacetic acid	250 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

It is possible that the number of results reported is not sufficient for statistical processing of the data. In this case, comments on the participants' performance will be included in the report.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

chloroacetic acid	analyse upon receipt
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## PROGRAMME 29B: EPICHLOROHYDRIN IN WASTE WATERS



185 € excl. VAT – total amount for 2 tests (excluding transport costs)

7 participants in 2022 – EXPERIENCE > 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M29B.1 - Waste water - sent in April 2023 - Refrigerated parcel</b>			
epichlorohydrin	100 mL	2	1
<b>23M29B.2 - Waste water - sent in December 2023 - Refrigerated parcel</b>			
epichlorohydrin	100 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

epichlorohydrin	analyse upon receipt
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## PROGRAMME 52: AOX IN WATERS



**331 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**40 participants** in 2022 – EXPERIENCE 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **45 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M52.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
AOX	500 mL	2	2
<b>23M52.2 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
AOX, SPE-AOX <sup>[1]</sup>	500 mL	2	2
<b>23M52.3 - Clean water - sent in September 2023 - Refrigerated parcel</b>			
AOX	500 mL	2	2
<b>23M52.4 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
AOX, SPE-AOX <sup>[1]</sup>	500 mL	2	2
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

<b>Recommended period to start the sample treatment (PRDT):</b> time interval during which the quality of test materials is optimal (in number of days)	
AOX, SPE-AOX	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 55A: GLYPHOSATE, AMPA AND AMINOTRIAZOLE IN WASTE WATERS



**438 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**9 participants** in 2022 – EXPERIENCE 4 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **110 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M55A.1 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
AMPA, aminotriazole, glyphosate	1000 mL	2	2
<b>23M55A.2 - Waste water - sent in August 2023 - Refrigerated parcel</b>			
AMPA, aminotriazole, glyphosate	1000 mL	2	2

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

AMPA, aminotriazole, glyphosate

analyse upon receipt

## PROGRAMME 59A: PERFLUORINATED COMPOUNDS IN WASTE WATERS



**322 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**9 participants** in 2022 – EXPERIENCE 4 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **85 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M59A.1 - Waste water - sent in May 2023 - Refrigerated parcel</b>			
PFHS [CAS 355-46-4] <sup>[1]</sup> , PFHpA [CAS 375-85-9] <sup>[1]</sup> , PFHxA [CAS 307-24-4] <sup>[1]</sup> , PFOA [CAS 335-67-1], PFOS [CAS 1763-23-1]	1000 mL	2	1
<b>23M59A.2 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
PFHS [CAS 355-46-4] <sup>[1]</sup> , PFHpA [CAS 375-85-9] <sup>[1]</sup> , PFHxA [CAS 307-24-4] <sup>[1]</sup> , PFOA [CAS 335-67-1], PFOS [CAS 1763-23-1]	1000 mL	2	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Perfluorinated compounds

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 71: PAHs AND PCBs IN WASTE WATERS



**838 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**37 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **210 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M71.1 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
<b>PAHs:</b> 2-methylfluoranthene, 2-methylnaphtalene, acenaphtene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene, acenaphtylene	1000 mL	2	1
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180	1000 mL	2	1
<b>23M71.2 - Waste water - sent in October 2023 - Refrigerated parcel</b>			
<b>PAHs:</b> 2-methylfluoranthene, 2-methylnaphtalene, acenaphtene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3 - cd]pyrene, naphtalene, phenanthrene, pyrene, acenaphtylene	1000 mL	2	1
<b>PCBs:</b> congener 28, congener 52, congener 101, congener 118, congener 138, congener 153, congener 180	1000 mL	2	1

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

PAHs, PCBs	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 72A: PESTICIDES AND DEGRADATION RESIDUES - LIST 1 - IN WASTE WATERS



**826 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**23 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **210 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter*
	Volume	Number	
<b>23M72A.1 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
2,4'-DDD , 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, acclonifen,alachlor, aldrin, alpha-endosulfan, alpha-HCH, beta-endosulfan, beta-HCH, bifenox, chlordane (total), chlorfenvinphos, chlorpropham, chlorpyriphos-ethyl, cis-chlordane (CAS 5103-71-9), cypermethrin, delta-HCH, diazinon, dichlorvos, dicofol, dieldrin, endosulfan (total), endrin, epsilon HCH, HCH total (= sum of isomers alpha+beta+gamma+delta), heptachlor, heptachlorepoxyde (total), heptachlorepoxyde endo trans, heptachlorepoxyde exo cis, iprodione <sup>[1]</sup> , isodrin, lindane (gamma-HCH), mirex, oxadiazon, pendimethalin, quinoxyfen, trans-chlordane (CAS 5103-74-2), tributyl phosphate, trifluralin	1000 mL	4	1
<b>23M72A.2 – Waste water - sent in November 2023 - Refrigerated parcel</b>			
2,4'-DDD , 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, acclonifen,alachlor, aldrin, alpha-endosulfan, alpha-HCH, beta-endosulfan, beta-HCH, bifenox, chlordane (total), chlorfenvinphos, chlorpropham, chlorpyriphos-ethyl, cis-chlordane (CAS 5103-71-9), cypermethrin, delta-HCH, diazinon, dichlorvos, dicofol, dieldrin, endosulfan (total), endrin, epsilon HCH, HCH total (= sum of isomers alpha+beta+gamma+delta), heptachlor, heptachlorepoxyde (total), heptachlorepoxyde endo trans, heptachlorepoxyde exo cis, iprodione <sup>[1]</sup> , isodrin, lindane (gamma-HCH), mirex, oxadiazon, pendimethalin, quinoxyfen, trans-chlordane (CAS 5103-74-2), tributyl phosphate, trifluralin	1000 mL	4	1
<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)			

**PARTICULARITIES**

**\*Particularity of the test design:** You have 2L of sample (2 bottles of 1L) to carry out one analysis of all the parameters.

**Recommended period to start the sample treatment (PRDT):**

time interval during which the quality of test materials is optimal (in number of days)

Pesticides and degradation residues - list 1 - in waste waters

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 72B: PESTICIDES AND DEGRADATION RESIDUES - LIST 2 - IN WASTE WATERS



**475 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**19 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **120 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M72B.1 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
2,4-D, MCPA, atrazine, azoxystrobin, bentazon, boscalid, chlortoluron, cybutryn, cyprodinil, deisopropylatrazine, desethylatrazine, desethylterbuthylazine, diflufenicanil, diuron, imidaclopride, isoproturon, linuron, metaldehyde, metazachlor, nicosulfuron, simazine, tebuconazole, terbuthylazine, terbutryn, thiabendazole	1000 mL	2	1
<b>23M72B.2 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
2,4-D, MCPA, atrazine, azoxystrobin, bentazon, boscalid, chlortoluron, cybutryn, cyprodinil, deisopropylatrazine, desethylatrazine, desethylterbuthylazine, diflufenicanil, diuron, imidaclopride, isoproturon, linuron, metaldehyde, metazachlor, nicosulfuron, simazine, tebuconazole, terbuthylazine, terbutryn, thiabendazole	1000 mL	2	1

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Pesticides and degradation residues - list 2 - in waste waters	D <sub>0</sub> +3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 73: ALKYLPHENOL ETHOXYLATES IN WASTE WATERS



**280 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**12 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **70 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M73.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
NP1EO - 4-nonylphenol monoethoxylate, NP2EO - 4-nonylphenol diethoxylate, OP1EO - 4-octylphenol monoethoxylate, OP2EO - 4-octylphenol diethoxylate	1000 mL	2	1
<b>23M73.2 - Waste water - sent in July 2023 - Refrigerated parcel</b>			
NP1EO - 4-nonylphenol monoethoxylate, NP2EO - 4-nonylphenol diethoxylate, OP1EO - 4-octylphenol monoethoxylate, OP2EO - 4-octylphenol diethoxylate	1000 mL	2	1

### PARTICULARITIES



You will receive a concentrated solution in addition to the bottles of waste water. The analyses have to be carried out with the reconstituted samples.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

NP1EO - 4-nonylphenol monoethoxylate,  
NP2EO - 4-nonylphenol diethoxylate,  
OP1EO - 4-octylphenol monoethoxylate,  
OP2EO - 4-octylphenol diethoxylate

analyse upon receipt

## INDEXES IN WATERS



## PROGRAMME 5A: GLOBAL INDEXES IN FRESH WATERS

The materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**216 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**58 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M5A.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
Free cyanide, total cyanide (index)	500 mL	2	2
phenol index	1000 mL	2	2
anionic surfactants index	500 mL	2	2
<b>23M5A.2 - Natural water - sent in September 2023 - Refrigerated parcel</b>			
Free cyanide, total cyanide (index)	500 mL	2	2
phenol index	1000 mL	2	2
anionic surfactants index	500 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Free cyanide, total cyanide (index)	D <sub>0</sub> +3
anionic surfactants index, phenol index	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 5B: GLOBAL INDEXES IN WASTE WATERS



**251 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**68 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M5B.1 - Waste water - sent in April 2023 - Refrigerated parcel</b>			
free cyanide, total cyanide (index)	500 mL	2	2
phenol index	1000 mL	2	2
anionic surfactants index	500 mL	2	2
<b>23M5B.2 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
free cyanide, total cyanide (index)	500 mL	2	2
phenol index	1000 mL	2	2
anionic surfactants index	500 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

free cyanide, total cyanide (index)	D <sub>0</sub> +3
anionic surfactants index, phenol index	D <sub>0</sub> +10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 5C: TOTAL HYDROCARBONS INDEX IN WATERS

Clean and natural waters: the materials are suitable for the check of analyses in fresh waters, public drinking waters, spring waters and non-atypical natural mineral waters.



**222 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**95 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **30 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M5C.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
total hydrocarbons index - C10-C40 range	1000 mL	2	1
<b>23M5C.2 - Waste water - sent in June 2023 - Refrigerated parcel</b>			
total hydrocarbons index - C10-C40 range	1000 mL	2	1
<b>23M5C.3 - Natural water - sent in September 2023 - Refrigerated parcel</b>			
total hydrocarbons index - C10-C40 range	1000 mL	2	1
<b>23M5C.4 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
total hydrocarbons index - C10-C40 range	1000 mL	2	1

### PARTICULARITIES

Total hydrocarbons index - C10-C40 range according to (NF EN) ISO 9377-2 or equivalent standard.

Total hydrocarbons index - C10-C40 range: sum of the concentrations of compounds extractable with a hydrocarbon solvent, boiling point between 36 °C and 69 °C, not adsorbed on Florisil and which may be chromatographed by GC-FID, with retention times between those of n-decane (C10H22) and n-tetracontane (C40H82).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

total hydrocarbons index - C10-C40 range

D<sub>0</sub>+10

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 5D: VOLATILE HYDROCARBONS INDEX IN WATERS



170 € excl. VAT – total amount for 3 tests (excluding transport costs)

29 participants in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **30 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M5D.1 - Waste water - sent in February 2023 - Refrigerated parcel</b>			
Volatile hydrocarbons index – C5-C9 range	100 mL	2	1
<b>23M5D.2 - Natural water - sent in June 2023 - Refrigerated parcel</b>			
Volatile hydrocarbons index – C5-C9 range	100 mL	2	1
<b>23M5D.3 - Waste water - sent in August 2023 - Refrigerated parcel</b>			
Volatile hydrocarbons index – C5-C9 range	100 mL	2	1

### PARTICULARITIES

Volatile hydrocarbons index – C5-C9 range according to NF T90-124 or equivalent standard.

Volatile hydrocarbons index – C5-C9 range: sum of concentrations of compounds present in the static headspace giving a response in gas chromatography equipped with a nonpolar column and a flame ionization detector (GC/FID), in experimental conditions enabling to obtain a C5/123-TMB ratio between 0,7 and 1,3, and with retention times between those of pentane (C5H12) and 1,2,3-trimethylbenzene (C9H12).

### Recommended period to start the sample treatment (PRDT):

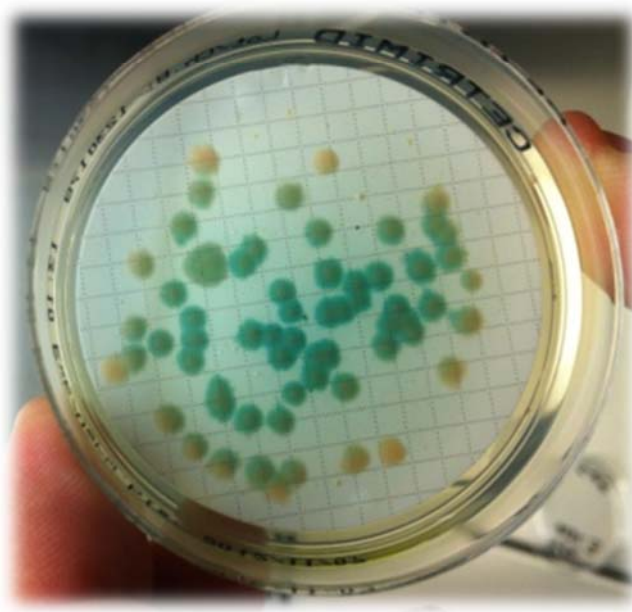
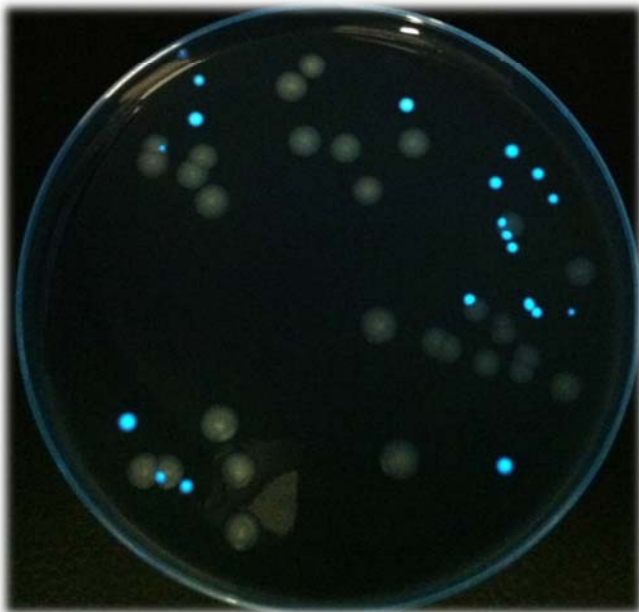
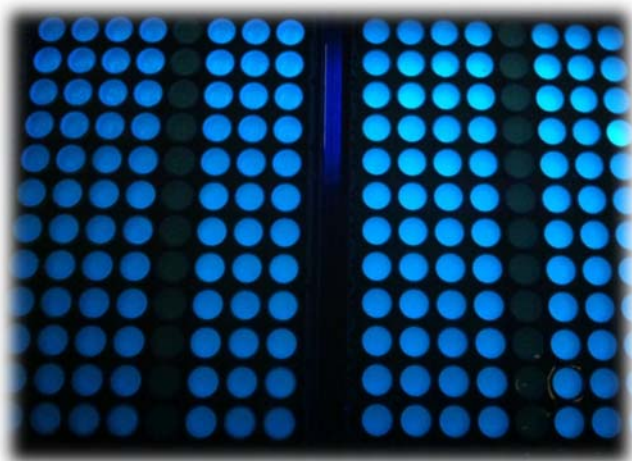
time interval during which the quality of test materials is optimal (in number of days)

Volatile hydrocarbons index – C5-C9 range

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

**WATER MICROBIOLOGY**



## PROGRAMME 11: MICROBIAL INDICATORS OF FAECAL CONTAMINATION BY MPN METHOD

*Test materials are suitable for the check of analyses in fresh waters, saline and brackish waters and waste waters.*



**401 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**125 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **55 € excl. VAT** (excluding transport costs)

Parameters to analyse <i>(implemented in each proficiency test except coliform bacteria)</i>	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M11.1 - Surface water - sent in February 2023 - Refrigerated parcel</b>			
Coliform bacteria, <i>Escherichia coli</i> , Intestinal enterococci	500 mL	2	2
<b>23M11.2 - Bathing freshwater - sent in June 2023 - Refrigerated parcel</b>			
Coliform bacteria, <i>Escherichia coli</i> , Intestinal enterococci	500 mL	2	2
<b>23M11.3 - Sea water - sent in August 2023 - Refrigerated parcel</b>			
<i>Escherichia coli</i> , Intestinal enterococci	500 mL	2	2
<b>23M11.4 - Waste water - sent in November 2023 - Refrigerated parcel</b>			
<i>Escherichia coli</i> , Intestinal enterococci	500 mL	2	2

### PARTICULARITIES

Coliform bacteria are provided only in surface water and bathing freshwater.

**Coliform bacteria:** parameter compatible with (NF EN) ISO 9308-2 and NF T90-413.

***Escherichia coli*:** parameter compatible with (NF EN) ISO 9308-2 and (NF EN) ISO 9308-3.

**Intestinal enterococci:** parameter compatible with (NF EN) ISO 7899-1 and Enterolert E.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

*Escherichia coli*, coliform bacteria, Intestinal enterococci

D<sub>0</sub>+1

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 30: MICROBIOLOGY IN CLEAN WATERS

Test materials are suitable for the check of analyses in public drinking waters, non-atypical natural mineral waters, swimming pool waters, waters for whirlpool baths, waters for multi-jet showers, healthcare waters *as well as fresh\* waters, waters in health care, pharmaceutical and cosmetic establishments.* \*Clear fresh waters for the spores of sulfite-reducing anaerobes.



**720 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**266 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **90 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M30.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	10 mL	2	2
<i>Escherichia coli</i> , coliform bacteria, Intestinal enterococci, spores of sulfite-reducing anaerobes	500 mL	2	2
<b>23M30.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	10 mL	2	2
<i>Escherichia coli</i> , coliform bacteria, Intestinal enterococci, spores of sulfite-reducing anaerobes	500 mL	2	2
<b>23M30.3 - Clean water - sent in October 2023 - Refrigerated parcel</b>			
culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	10 mL	2	2
<i>Escherichia coli</i> , coliform bacteria, Intestinal enterococci, spores of sulfite-reducing anaerobes	500 mL	2	2
<b>23M30.4 - Clean water - sent in December 2023 - Refrigerated parcel</b>			
culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	10 mL	2	2
<i>Escherichia coli</i> , coliform bacteria, Intestinal enterococci, spores of sulfite-reducing anaerobes	500 mL	2	2

## PARTICULARITIES

Culturable micro-organisms at 22°C and culturable micro-organisms at 36°C: by incorporation.

Coliform bacteria, *Escherichia coli*: parameters compatible with (NF EN) ISO 9308-1 (2000), ISO 9308-1 (2014), ISO 9308-2 (2012) and (NF EN) ISO 9308-2 (2014).

Intestinal enterococci: parameter compatible with (NF EN) ISO 7899-2 and Enterolert DW.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_r^2$  and the reproducibility uncertainty  $u_R^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

☞ Find in the other microbiology programmes:

- ✓ programme 30A for the analysis of spores of sulfite-reducing anaerobes in fresh surface waters and waste waters,
- ✓ programme 86 for the analysis of culturable micro-organisms at 22°C and at 36°C after filtration.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

culturable micro-organisms at 22°C,  
culturable micro-organisms at 36°C,  
*Escherichia coli*, coliform bacteria,  
Intestinal enterococci,  
spores of sulfite-reducing anaerobes

D<sub>0</sub>+1

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 30A: SPORES OF SULFITE-REDUCING ANAEROBES IN FRESH SURFACE WATERS AND WASTE WATERS

*Test materials are suitable for the check of analyses in fresh waters and in waste waters.*



**236 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**16 participants** in 2022 – EXPERIENCE 2 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **30 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M30A.1 - Surface water - sent in March 2023 - Refrigerated parcel</b>			
Spores of sulfite-reducing anaerobes	250 mL	2	2
<b>23M30A.2 - Waste water - sent in June 2023 - Refrigerated parcel</b>			
Spores of sulfite-reducing anaerobes	250 mL	2	2
<b>23M30A.3 - Surface water - sent in October 2023 - Refrigerated parcel</b>			
Spores of sulfite-reducing anaerobes	250 mL	2	2
<b>23M30A.4 - Waste water - sent in December 2023 - Refrigerated parcel</b>			
Spores of sulfite-reducing anaerobes	250 mL	2	2

### PARTICULARITIES

For this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_r^2$  and the reproducibility uncertainty  $u_R^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Spores of sulfite-reducing anaerobes	$D_0+1$
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$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 31: *PSEUDOMONAS AERUGINOSA* AND PATHOGENIC STAPHYLOCOCCI IN CLEAN WATERS

Test materials are suitable for the check of analyses in public drinking waters, non-atypical natural mineral waters, swimming pool waters, waters for whirlpool baths, waters for multi-jet showers, healthcare waters and bacteriologically controlled waters *as well as fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*



**486 € excl. VAT** – total amount for 4 tests (excluding transport costs)

**224 participants** in 2022 – EXPERIENCE > 25 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **65 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M31.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
<i>Pseudomonas aeruginosa</i> , pathogenic staphylococci (coagulase positive)	500 mL	2	2
<b>23M31.2 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
<i>Pseudomonas aeruginosa</i> , pathogenic staphylococci (coagulase positive)	500 mL	2	2
<b>23M31.3 - Clean water - sent in October 2023 - Refrigerated parcel</b>			
<i>Pseudomonas aeruginosa</i> , pathogenic staphylococci (coagulase positive)	500 mL	2	2
<b>23M31.4 - Clean water - sent in December 2023 - Refrigerated parcel</b>			
<i>Pseudomonas aeruginosa</i> , pathogenic staphylococci (coagulase positive)	500 mL	2	2

### PARTICULARITIES

*Pseudomonas aeruginosa*: parameter compatible with (NF EN) ISO 16266 and ISO 16266-2.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $ur^2$  and the reproducibility uncertainty  $uR^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

*Pseudomonas aeruginosa*,  
pathogenic staphylococci (coagulase positive)

D<sub>0</sub>+1

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 31A: PATHOGENIC STAPHYLOCOCCI IN SALINE WATERS

**188 € excl. VAT** - total amount for 2 tests (excluding transport costs)

**9 participants** in 2022 – EXPERIENCE: 1 YEAR



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M31A.1 - Saline water - sent in June 2023 - Refrigerated parcel</b>			
pathogenic staphylococci (coagulase positive)	250 mL	2	2
<b>23M31A.2 - Saline water - sent in December 2023 - Refrigerated parcel</b>			
pathogenic staphylococci (coagulase positive)	250 mL	2	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

pathogenic staphylococci (coagulase positive)	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 32: *LEGIONELLA* AND *LEGIONELLA PNEUMOPHILA* IN CLEAN WATERS BY CULTURE

Test materials are suitable for the check of analyses in public drinking waters, domestic hot waters, natural mineral waters for thermal use, swimming pool waters and equivalent, waters from misting systems *as well as fresh waters and process waters except coloured and/or unfilterable water requiring centrifugation or following the 'waste water' protocol.*



**540 € excl. VAT** – total amount for 3 tests (excluding transport costs)

**237 participants** in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **90 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M32.1 – Clean water - sent in February 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	500 mL	2	2
<b>23M32.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	500 mL	2	2
<b>23M32.3 - Clean water - sent in October 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	500 mL	2	2

### PARTICULARITIES

Refrigerated parcel to favour the reception of similar samples in France and internationally.

*Legionella* and *Legionella pneumophila*: parameters compatible with NF T90-431 and ISO 11731 (2017) [Matrix A; Procedures 1 and 7; Medium C].

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

*Legionella pneumophila, Legionella*

D<sub>0</sub>+2

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 33: *LEGIONELLA* AND *LEGIONELLA PNEUMOPHILA* IN WASTE WATERS BY CULTURE

Test materials are suitable for the check of analyses in surface waters, in industrial waters, in waters from cooling installations by water dispersion in air flows ('IRDEFA'), in natural waters *as well as fresh waters and process waters coloured and/or unfilterable requiring centrifugation or following the 'waste water' protocol.*



**580 € excl. VAT** – total amount for 3 tests (excluding transport costs)

**135 participants** in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **100 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M33.1 - Waste water - sent in January 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	1030 mL	2	2
<b>23M33.2 - Waste water - sent in March 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	1030 mL	2	2
<b>23M33.3 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
<i>Legionella pneumophila, Legionella</i>	1030 mL	2	2

### PARTICULARITIES

Refrigerated parcel to favour the reception of identical samples in France and internationally.

*Legionella, Legionella pneumophila*: parameters compatible with NF T90-431 and ISO 11731 (2017) [Matrix B; Procedures 1, 8, 9, 10 and 11; Medium C].

'IRDEFA': Specific waste waters used, waters similar to waters from cooling installations by water dispersion in air flows.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

*Legionella pneumophila, Legionella*

D<sub>0</sub>+2

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 35: *LEGIONELLA* AND *LEGIONELLA PNEUMOPHILA* IN CLEAN WATERS BY PCR

Test materials are suitable for the check of analyses in public drinking waters, domestic hot waters, natural mineral waters for thermal use, swimming pool waters and equivalent, waters from misting systems *as well as fresh waters*.



**590 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**26 participants** in 2022 – EXPERIENCE 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **150 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M35.1 - Clean water - sent in February 2023 - Refrigerated parcel</b>			
<i>Legionella, Legionella pneumophila</i>	500 mL	2	2
<b>23M35.2 - Clean water - sent in October 2023 - Refrigerated parcel</b>			
<i>Legionella, Legionella pneumophila</i>	500 mL	2	2

### PARTICULARITIES

*Legionella, Legionella pneumophila*: parameters compatible with NF T90-471 and ISO/TS 12869.

The analysis method used must lead to quantitative results. Presence/absence type results cannot be processed.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

<i>Legionella, Legionella pneumophila</i>	D <sub>0</sub> +2
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 36: LEGIONELLA AND LEGIONELLA PNEUMOPHILA IN WASTE WATERS BY PCR

Test materials are suitable for the check of analyses in surface waters, industrial waters, waters for cooling installations by water dispersion in an air flow (IRDEFA), natural waters *as well as in process waters*.



**686 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**13 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **175 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M36.1 - Waste water - sent in May 2023 - Refrigerated parcel</b>			
<i>Legionella, Legionella pneumophila</i>	500 mL	2	2
<b>23M36.2 - Waste water - sent in September 2023 - Refrigerated parcel</b>			
<i>Legionella, Legionella pneumophila</i>	500 mL	2	2

### PARTICULARITIES

*Legionella, Legionella pneumophila*: parameters compatible with NF T90-471 and ISO/TS 12869.

'IRDEFA': specific waste waters used, waters similar to waters from cooling installations by water dispersion in air flows.

The analysis method used must lead to quantitative results. Presence/absence type results cannot be processed.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

*Legionella, Legionella pneumophila*

D<sub>0</sub>+2

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 37: SALMONELLA IN FRESH WATERS



136 € excl. VAT – total amount for 2 tests (excluding transport costs)

87 participants in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **35 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M37.1 - Clean water - sent in March 2023 - Refrigerated parcel</b>			
<i>Test materials are suitable for the check of analyses in public drinking waters and non-atypical natural mineral waters.</i>			
<i>Salmonella</i>	1000 mL	2	1
<b>23M37.2 - Surface water - sent in November 2023 - Refrigerated parcel</b>			
<i>Test materials are suitable for the check of analyses in fresh surface waters used for the production of waters intended for human consumption and non-atypical natural mineral waters.</i>			
<i>Salmonella</i>	1000 mL	2	1

### PARTICULARITIES

Qualitative analysis: presence / absence.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

<i>Salmonella</i>	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 38: YEASTS IN CLEAN WATERS

Test materials are suitable for the check of analyses in public drinking waters, non-atypical natural mineral waters and bacteriologically controlled waters *as well as fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*



**138 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**20 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **35 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M38.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
Yeasts	510 mL	2	2
<b>23M38.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
Yeasts	510 mL	2	2

### PARTICULARITIES

For this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_r^2$  and the reproducibility uncertainty  $u_R^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Yeasts	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 38A: MOULD IN CLEAN WATERS

Test materials are suitable for the check of analyses in public drinking waters, non-atypical natural mineral waters and bacteriologically controlled waters *as well as fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*

**188 € excl. VAT** – total amount for **2 tests** (excluding transport costs)

**29 participants** in 2022 – EXPERIENCE 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **50 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M38A.1 - Clean water - sent in January 2023 - Refrigerated parcel</b>			
Mould	500 mL	2	2
<b>23M38A.2 - Clean water - sent in June 2023 - Refrigerated parcel</b>			
Mould	500 mL	2	2

### PARTICULARITIES

For this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_{r^2}$  and the reproducibility uncertainty  $u_{R^2}$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Mould	$D_0+1$
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$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 130: BACTERIOPHAGES IN WATERS

700 € excl. VAT - total amount for 2 tests (excluding transport fees)

**New**

New in 2023

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M130.1 - Fresh water - sent in April 2023 - Refrigerated parcel</b>			
Somatic coliphages and F-specific RNA bacteriophages	250 mL	1	2
<b>23M130.2 – Waste water - sent in October 2023 - Refrigerated parcel</b>			
Somatic coliphages and F-specific RNA bacteriophages	250 mL	1	2

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Somatic coliphages and F-specific RNA bacteriophages	D <sub>0</sub> +1
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



**COSMETICS**



## PROGRAMME 110: CHALLENGE TEST

Evaluation of the antimicrobial protection of *cosmetic products*.

**492 € excl. VAT** - total amount for the test (excluding transport costs)

**16 participants** in 2022 – EXPERIENCE: 5 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M110.1 - sent in November 2023</b>			
Percent reductions at 48 hours, 7 days and 14 days	110 g or mL	2 (1 per couple bacterial strain / cosmetic product)	2

### PARTICULARITIES



Perform preservation efficacy tests on 2 couples bacterial strain / cosmetic product following the ISO 11930 standard or an equivalent internal method.

Bacterial strains not provided.

**Recommended period to start the sample treatment (PRDT):**  
time interval during which the quality of test materials is optimal (in number of days)

Percent reductions at 48 hours, 7 days and 14 days	D <sub>0</sub> +10
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



## PROGRAMME 12: MACROINVERTEBRATES OF RUNNING WATERS



737 € excl. VAT – total amount for 1 test (excluding transport costs)

41 participants in 2022 – EXPERIENCE > 10 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M12.1 - Habitation of running waters - sent in September 2023</b>			
Faunal list according to NF T90-350 and/or NF T90-388 and, as an option, calculation of IBGN indexes, MCPE12 (Code Sandre 5912) and/or I2M2 (Code Sandre 7613) (no sampling step)	500 mL	12	1

### PARTICULARITIES



Fixation reagent: ethanol

**Registration deadline: 29 April 2023**

Laboratories wishing a second expertise for some singular taxa highlighted during the statistical processing will be able to send them back to AGLAE. To do so, participants will be contacted as soon as the review is issued to specify how to send the concerned taxa back.

This second expertise will allow a better consideration of the profile of singular laboratories for a possible re-ranking of analytical performance.

**The test documents of this Proficiency Testing Scheme are not translated into English.**

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Faunal list	Analyses will have to be carried out so as to meet the deadline set by AGLAE to send the results.
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## PROGRAMME 13: ECOTOXICOLOGY



490 € excl. VAT – total amount for 2 tests (excluding transport costs)

30 participants in 2022 – EXPERIENCE > 20 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **125 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M13.1 - Fresh and waste waters - sent in March 2023 - Refrigerated parcel</b>			
"Daphnia" test: determination of the inhibition of the mobility of <i>Daphnia magna</i> Straus – acute toxicity test	1000 mL	1 for fresh waters and 1 for waste waters	2
<b>23M13.2 - Fresh and waste waters - sent in September 2023 - Refrigerated parcel</b>			
"Daphnia" test: determination of the inhibition of the mobility of <i>Daphnia magna</i> Straus – acute toxicity test	1000 mL	1 for fresh waters and 1 for waste waters	2

### PARTICULARITIES



The determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (luminescent bacteria test - "Microtox" <sup>[1]</sup> test) can also be carried out on these samples. Data statistical treatment may be performed if the number of participants' results is sufficient.

<sup>[1]</sup> parameter not covered by accreditation (see general conditions of registration)

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

"Daphnia" test	D <sub>0</sub> +2
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D<sub>0</sub>: Day the samples are sent to all the participants (for the tests of programme 13, Monday)

## PROGRAMME 16: BIOLOGICAL DIATOM INDEX



295 € excl. VAT – total amount for 1 test (excluding transport costs)

23 participants in 2022 – EXPERIENCE 9 YEARS

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M16.1 - Running water - sent in September 2023</b>			
Floristic list according to NF T90-354.	around 20 mL	1	1

### PARTICULARITIES



Fixation reagent: ethanol.

**Registration deadline: 29 April 2023**

Transmission of results via Omnidia software: our Biology data processing team will access the data of your laboratory to perform the statistical processing.

Indexes will be calculated by AGLAE via OMNIDIA software.

Photographic prints of 10 remarkable species will be included in the test report.



Assessment of several technicians is possible: referent results and additional results can be reported.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Floristic list according to NF T90-354	Analyses will have to be carried out so as to meet the deadline set by AGLAE to send the results.
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## PROGRAMME 34: PROTOZOANS IN FRESH WATERS

Test materials are suitable for checking analyses in public distribution water and non-atypical natural mineral waters.



**642 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**18 participants** in 2022 – EXPERIENCE > 15 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **165 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M34.1 - Clean water - sent in April 2023 - Refrigerated parcel</b>			
Cryptosporidium oocysts (total) Cryptosporidium oocysts (healthy) Giardia cysts (total) Giardia cysts (healthy)	400 µL	2	1
<b>23M34.2 - Clean water - sent in November 2023 - Refrigerated parcel</b>			
Cryptosporidium oocysts (total) Cryptosporidium oocysts (healthy) Giardia cysts (total) Giardia cysts (healthy)	400 µL	2	1

### PARTICULARITIES

With one of the 2 tubes, only one analysis of the total concentrate has to be carried out by I.M.S. reconcentration, staining, identification and enumeration.

The second tube of concentrate will have to be re-suspended in 10 litres of drinking water. A complete analysis will be carried out on this 10-litre sample (complete analysis: filtration, concentration, staining, identification and enumeration).

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Cryptosporidium oocysts, Giardia cysts

D<sub>0</sub>+3

D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)



**WATERS INTENDED FOR  
MEDICAL USE**





## PROGRAMME 82: ENDOTOXINS IN WATERS AS DESCRIBED IN THE PHARMACOPOEIA

Test materials are suitable for the check of analyses in waters as described in the pharmacopoeia, waters for irrigation, hemodialysis waters, dialysates, substitution fluids, *as well as waters in health care, pharmaceutical and cosmetic establishments.*



**328 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**60 participants** in 2022 – EXPERIENCE 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **85 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M82.1 - Waters intended for medical use - sent in March 2023 - Refrigerated parcel</b>			
Bacterial Endotoxins	250 mL	2	2
<b>23M82.2 - Waters intended for medical use - sent in August 2023- Refrigerated parcel</b>			
Bacterial Endotoxins	250 mL	2	2

### PARTICULARITIES

Bacterial endotoxins (LAL enumeration) in accordance with the current pharmacopoeia PE 2.6.14 or USP <85> and <161>.

Please note that only quantitative methods and methods giving results like <X, >Y or [x; y] are taken into account for the statistical processing of data.

Results coming from qualitative methods (presence / absence) cannot be statistically processed.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Bacterial Endotoxins	D <sub>0</sub> + 3
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D<sub>0</sub>: Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 83A: MICROBIOLOGY IN WATERS SIMILAR TO DIALYSATE

*Test materials are suitable for the check of analyses in hemodialysis waters, dialysates, generator loop outflow waters, substitution fluids, as well as fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*



**356 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**72 participants** in 2022 - EXPERIENCE 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **90 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M83A.1 - Waters intended for medical use - sent in February 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 22°C - 7 days with identification	500 mL	2	2
<i>Pseudomonas aeruginosa</i>	500 mL	2	2
<b>23M83A.2 - Waters intended for medical use - sent in October 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 22°C - 7 days with identification	500 mL	2	2
Yeasts	500 mL	2	2

### PARTICULARITIES

Aerobic flora culturable at 22°C during 7 days (by filtration): advised culture media R2A.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $ur^2$  and the reproducibility uncertainty  $uR^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

👉 Find a specific programme for yeasts: programme 38, as well as a programme for *Pseudomonas aeruginosa*: programme 31.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Culturable micro-organisms at 22°C - 7 days,  
*Pseudomonas aeruginosa* and yeasts

$D_0 + 1$

$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 83B: MICROBIOLOGY IN WATERS SIMILAR TO ENDOSCOPE VERIFICATION SOLUTIONS

*Test materials are suitable for the check of analyses in fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*



**296 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**102 participants** in 2022 - EXPERIENCE 10 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **75 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M83B.1 - Waters intended for medical use - sent in March 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 30°C - 5 days and identification	500 mL	2	2
<b>23M83B.2 - Waters intended for medical use - sent in October 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 30°C - 5 days and identification	500 mL	2	2

### PARTICULARITIES

Total aerobic mesophile flora culturable at 30°C during 5 days including yeasts: none-selective culture media advised such as PCA or TS.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $ur^2$  and the reproducibility uncertainty  $uR^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

culturable micro-organisms at 30°C - 5 days

$D_0 + 1$

$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 86: INDICATOR GERMS BY FILTRATION IN BACTERIOLOGICALLY CONTROLLED WATERS

*Test materials are suitable for the check of analyses in fresh waters, waters in health care, pharmaceutical and cosmetic establishments.*



**236 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**73 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **60 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M86.1 - Waters intended for medical use - sent in March 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	500 mL	2	2
<b>23M86.2 - Waters intended for medical use - sent in October 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 22°C, culturable micro-organisms at 36°C	500 mL	2	2

### PARTICULARITIES

Aerobic flora culturable at 22°C and at 36°C on PCA or TS media by filtration of 100 mL.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_r^2$  and the reproducibility uncertainty  $u_R^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

☞ Find the analysis of culturable micro-organisms at 22°C and at 36°C by the plate incorporation method: programme 30.

☞ Find the analysis of *Pseudomonas aeruginosa*: programme 31.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Culturable micro-organisms at 22°C  
culturable micro-organisms at 36°C

$D_0 + 1$

$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

## PROGRAMME 86B: INDICATOR GERMS IN WATERS SIMILAR TO PHARMACEUTICAL PROCESS WATERS

*Test materials are suitable for the check of analyses in waters as described in the pharmacopoeia, healthcare waters (purified and highly purified waters ...) as well as pharmaceutical and cosmetic establishments.*



**238 € excl. VAT** – total amount for 2 tests (excluding transport costs)

**22 participants** in 2022 – EXPERIENCE > 5 YEARS



**Need to test another method, evaluate your staff?**

Order **additional test samples** (parcel in its entirety): **60 € excl. VAT** (excluding transport costs)

Parameters to analyse	Bottle		Number of measurements per parameter and per bottle
	Volume	Number	
<b>23M86B.1 - pharmaceutical process water - sent in April 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 30-35°C on R2A medium during 5 days	500 mL	2	2
<b>23M86B.2 - pharmaceutical process water - sent in November 2023 - Refrigerated parcel</b>			
Culturable micro-organisms at 30-35°C on R2A medium during 5 days	500 mL	2	2

### PARTICULARITIES

Aerobic flora culturable at 30-35°C on R2A medium during 5 days **after filtration**.

For all the parameters of this programme, uncertainties are calculated and provided to the participants. The indicators are the repeatability uncertainty  $u_r^2$  and the reproducibility uncertainty  $u_R^2$  specific to each participant. The uncertainty evaluated for the whole profession is also presented.

### Recommended period to start the sample treatment (PRDT):

time interval during which the quality of test materials is optimal (in number of days)

Culturable micro-organisms at 30-35°C on R2A medium during 5 days	$D_0 + 1$
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$D_0$ : Day the samples are sent to all the participants (for most proficiency tests, Tuesday)

When registering for a scheme any laboratory accepts the following general conditions.

### 1. Registration for the proficiency tests

AGLAE is a non-profit-association governed by the French 1901 law.

Any analytical or testing laboratory in the chemical, biological, physical... field can register for the tests; it is then a member of the Association.

Any member wishing to participate actively in the operation of the Association may apply (contact us).

AGLAE's proficiency testing scheme is conducted from January to December. It is adapted every year to the needs of laboratories and to French regulation in force. However, registrations are possible all the year through, as long as proficiency tests are still available. Registration for one programme includes the participation in all the tests left when registering. Because regulations vary according to the country, international laboratories are allowed to order proficiency tests as separate units.

AGLAE's service offers are provided as part of a subscription. There is no withdrawal period as samples can deteriorate quickly.

Registration is effective when AGLAE sends the registration certificate.

Once registered, a laboratory shall not withdraw and ask for a refund, even if the laboratory requests not to receive the samples.

When registering, the laboratory shall agree to receive the samples any working day (according to French legislation) during the scheme. After registration, participants receive their schedule.

AGLAE might be brought to modify the scheme content during the year (shipment date, change of packaging, analytical periods...).

Without involving AGLAE's liability, any programme might be cancelled if the number of registered participants is considered insufficient or in case of feasibility problem. Should a programme be cancelled, invoiced fees will be reimbursed.

### 2. Quality Control Materials

AGLAE provides "Quality Control Materials" to any laboratory registered for a scheme. These materials come from proficiency tests in solid matrices.

Any member may order these materials whether the laboratory has participated or not in the proficiency test from which the test material comes from.

The laboratory can order them at any time during the year, up to a limit of 5 materials from the same batch.

On receipt of a purchase order or of a validated quote, AGLAE informs the laboratory of the date the quality control materials are sent.

The conditions of transport, receipt and payment of quality control materials follow the ones of test materials.

### 3. Additional test samples

AGLAE provides additional samples for almost all the tests. These samples are sent at the same time as interlaboratory samples, to the same address and no statistical treatment is carried out from them. The laboratory should be registered for the concerned programme to purchase them. The conditions of transport, receipt and payment of additional test samples follow

the ones of test materials.

### 4. Payment of the due amounts

The laboratory has to pay the amount of its invoice. The invoice includes: participation fees, transport and possibly VAT, management fees, discounts.

Invoicing of participation fees is established proportionally to the number of tests left, increased by 10% when the entire set of tests for a programme is no more available or for the purchase of separate units for international laboratories.

Transport costs are not included in the cost of the proficiency tests, they are charged in addition.

Management fees can be applied in particular in case of bank transfer costs to be paid by AGLAE.

Payments have to be done without causing any fees for AGLAE within a fixed schedule specified on the invoice.

Any delay or absence of payment leads to, by right and without formal notice, the immediate payability of the due sums as well as the payment of penalties of one and a half times the legal interest rate, based on unpaid sums and without prejudice of damages and other costs that the Association may require. All sums are due from the deadline of payment until they are actually paid.

AGLAE reserves the right to withhold the access to the member Area or shipment of test materials to any laboratory not respecting the deadlines of payment and not replying to reminders. In case of temporary suspension of the sending of test materials, the laboratory will not be entitled to claim the refund of the proficiency tests not performed. In case of late payment or payment anomaly, payments will then be requested upon receipt of the quote.

Invoicing is done at the time of registration, independently from the conduct of the tests. It may not be required to be made out once the service has been provided.

### 5. Accreditation and confidentiality

AGLAE meets the requirements of ISO / IEC 17043 standard and Cofrac rules of application for the provision of interlaboratory comparisons (*Cofrac accreditation No. 1-1664 – scope available on [www.cofrac.fr](http://www.cofrac.fr)*).

Laboratories cannot use AGLAE's logo jointly with AGLAE's Cofrac accreditation mark.

AGLAE is committed to assuring the **confidentiality of information** it owns. Anonymity of participants in a test is assured by the coding of results, all the test documents containing results are issued with the laboratory's code.

AGLAE may not provide a performance assessment for parameters not implemented under accreditation.

### 6. Communication with the participants

Communication between the Association and participants are mainly in **electronic** format: sending and receiving emails, documents to download from the dedicated area of AGLAE's web site ("Member area").

Many messages and test documents are translated into English, but the official version remains the French version.

The laboratory is responsible for updating its contact details via the members' area or by e-mail if necessary.

AGLAE accepts no liability for the non-receipt of emails. Laboratories shall follow the conduct of proficiency tests and react to reminders.



### 7. Transport of test materials

Transport is performed by **express delivery** service by a courier selected by AGLAE.

Transport deadlines are available from AGLAE. Laboratories should be able to receive deliveries from 7.30 am as well as during lunch breaks.

AGLAE's liability towards deliveries is limited to late deliveries of more than 2 working days compared to the delays specified by the courier, not attributable to laboratories and in normal period of activity. The date to which all the parcels are handed over to the courier is considered to calculate possible late deliveries.

AGLAE will not be liable for:

- malfunctioning attributable to the laboratory (no receipt of the parcel handed over by the carrier or loss of the parcel within the laboratory or address change without prior notice),
- delays at customs,
- social conflicts, national or local,
- case of force majeure preventing correct delivery (weather problems...),
- unjustified claim about the integrity of the received products.

In every instance, when AGLAE's liability is involved, the compensation shall be limited to the price for the proficiency test giving rise to such liability (adding the transport fees invoiced).

**Attention:** depending on the destination, a **custom duty may be requested to the laboratory by the local customs. The laboratory shall take any necessary action to meet the customs' requirements and get the test materials as soon as possible.**

### 8. Receipt and quality of the test materials

In case of major failure found on receipt of the test materials, the laboratory shall contact AGLAE as quickly as possible so that AGLAE can take the appropriate actions. Anomalies notified by the laboratory more than 24 hours after receipt will not be accepted.

The objective aimed during the proficiency testing preparation is to prepare test materials as close as possible to the ones regularly analysed: the contamination levels can thus be very low or on the opposite very high.

In case of major defect of test samples quality, AGLAE has the possibility to cancel the concerned parameter or the whole proficiency test; without the laboratories being able to claim any compensation.

Should a proficiency test be cancelled based on the decision of the Management or of the Administration Board, the test would then be postponed.

In case one or several parameters of a test are cancelled, the concerned parameters will not be systematically provided again, unless otherwise decided by the Administration Board.

### 9. Analysis of the test materials

The laboratory should start analyses as soon as possible, during the recommended period to start the sample treatment (P.R.D.T.). This period corresponds to the time interval during which the materials' quality is optimal under the recommended preservation conditions. After this period, failures may occur and interfere with the assessment of the analytical performance of laboratories, without involving AGLAE's liability.

**For laboratories outside France**, delivery times may be systematically superior to the recommended period to start the sample treatment. Laboratories should check their delivery delay in comparison with the P.R.D.T.

The laboratory shall return results. For almost all tests, results are entered via the Member Area. They must be reported and validated by the deadline specified by AGLAE. Results that have not been validated will not be statistically treated. AGLAE will not be liable for that. Should the number of results be insufficient, AGLAE shall cancel the parameter.

The laboratory shall not, in any case, disclose its results to any party (other than AGLAE); anyway before test reports are issued.

### 10. Test reports

The objective is to issue test reports as soon as possible. The delay varies between 1 and 10 weeks depending on the difficulty met with data processing (number of parameters, deviations between methods). Our average delay to issue test reports is 3 weeks and a provisional delay is given for each test: however, these delays are not contractual.

Note that test reviews and test reports have to be downloaded from the Member Area of AGLAE's web site. They are available for all the participants registered for the test. If the laboratory wishes to appeal following its performance assessment, it must contact AGLAE's Quality Manager in writing (email or postal mail).

### 11. Data ownership

**Produced data (in particular precision values) belong solely to the Association.** They are only aimed at laboratories which participated in the test, for internal use of quality management and check or evidence\* of their analytical performance.

Report's reproduction is authorised in its entirety only.

Any use other than those defined above requires preliminary approval from AGLAE under penalty of prosecution; whether it is a usage or communication (full or partial) by laboratories which participated in the test or by third parties.

### 12. Data protection

AGLAE processes personal data that you provide when registering but also during the proficiency testing scheme in compliance with legal obligations.

For more information with regard to the processing of personal data, you may read the section about personal data on [www.association-aglae.fr](http://www.association-aglae.fr).

### 13. Safety policy and respect for the environment

When registering for our tests, laboratories agree to handle samples and dispose of their waste in accordance with the usual caution and current regulations.

*Should there be any differences between the French and English versions of this document, the French version shall prevail.*

\*: evidence to their clients, accreditation bodies or Ministries in the frame of approvals