## Proficiency Testing Programs
### Food Contaminants

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A28</td>
<td>Patulin determination</td>
</tr>
<tr>
<td>A31a</td>
<td>Mycotoxins: dried fruits, spices and other products</td>
</tr>
<tr>
<td>A31b</td>
<td>Mycotoxins: cereals</td>
</tr>
<tr>
<td>A31c</td>
<td>Mycotoxins: baby Food</td>
</tr>
<tr>
<td>A31d</td>
<td>M1 Aflatoxin: milk</td>
</tr>
<tr>
<td>A32a</td>
<td>Trace elements in plants</td>
</tr>
<tr>
<td>A32b</td>
<td>Trace elements in sea products</td>
</tr>
<tr>
<td>A32c</td>
<td>Trace elements in feed</td>
</tr>
<tr>
<td>A32d</td>
<td>Trace elements in food</td>
</tr>
<tr>
<td>A32e</td>
<td>Trace elements in dairy food</td>
</tr>
<tr>
<td>A44a</td>
<td>PCB and dioxins in agri-food domain</td>
</tr>
<tr>
<td>A44b</td>
<td>PAH in agri-food domain</td>
</tr>
<tr>
<td>74</td>
<td>Melamine in milk</td>
</tr>
<tr>
<td>76</td>
<td>Contaminants in Dairy food</td>
</tr>
<tr>
<td>77</td>
<td>Food allergens</td>
</tr>
</tbody>
</table>

A = PTS accredited by COFRAC

Bipea is a versatile Proficiency Testing Schemes organizer which gathers laboratories from 90 countries
28 – **Patulin determination**

- Proficiency testing scheme created in **1996**
- **26 registered laboratories** from **5 countries**
- This PTS is accredited by **COFRAC**
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

*NATURE OF SAMPLES*

- Apple juice
- Apple sauce
- Apple concentrate
- Cider
- Multifruits compote
- Pommeau.

*MAIN PARAMETERS* *

- Patulin.

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*
### 31a - Mycotoxins: Dried Fruits, Spices and Other Products

- Proficiency testing scheme created in 1996
- 66 registered laboratories from 25 countries
- This PTS is accredited by COFRAC
- 5 rounds per annual series
- For further details on samples please refer to the planning.

#### Nature of Samples

<table>
<thead>
<tr>
<th>Coffee</th>
<th>Cottonseed cattle cake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dried grapes</td>
<td>Hazel nut</td>
</tr>
<tr>
<td>Nuts</td>
<td>Peanut cake</td>
</tr>
<tr>
<td>Pistachio paste</td>
<td>Pepper</td>
</tr>
<tr>
<td>Peanut paste</td>
<td>Wheat</td>
</tr>
<tr>
<td>Nutmeg</td>
<td>Curry</td>
</tr>
<tr>
<td>Peanut</td>
<td>Almond powder</td>
</tr>
</tbody>
</table>

#### Main Parameters*

- B1, B2, G1, G2 and M1 aflatoxins
- Ochratoxin A.

*NA => Non accredited parameter

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.
**31b - MYCOTOXINS: CEREALS**

- Proficiency testing scheme created in **1996**
- **109 registered laboratories** from **35 different countries**
- This PTS is accredited by COFRAC
- **5 rounds per annual series**
- For further details on samples please refer to the planning.

### Nature of Samples
- Feed
- Bran
- Barley
- Buckwheat flour
- Corn
- Cornflakes
- Oat
- Rice
- Tritical
- Wheat
- Wheat draff.

### Main Parameters*
- Aflatoxins B1, B2, G1, G2
- Deoxynivalenol
- Fumonisins B1, B2
- Nivalenol
- Ochratoxin A
- T2, HT2
- Zearalenone.

---

NA => Non accredited parameter

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**31c – MYCOTOXINS: BABY FOOD**

**NATURE OF SAMPLE**

- Baby food in flour
- Spiking levels in accordance with the maximum level authorized for baby food and young children.

**MAIN PARAMETERS***

- Aflatoxins B1, B2, G1, G2
- Deoxynivalenol
- Fumonisins B1 and B2
- Nivalenol
- Ochratoxin A
- T2, HT2
- Zearalenone.

NA => Non accredited parameter

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31d – M1 Aflatoxin: Milk

- Proficiency testing scheme created in 2012
- This PTS is accredited by COFRAC
- 30 registered laboratories from 13 countries
- 1 round per annual series
- For further details on samples please refer to the planning.

**NATURE OF SAMPLE**

- Milk in powder form

**MAIN PARAMETERS**

- M1 Aflatoxin

NA => Non accredited parameter

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.
32a – Trace elements in plants

- Proficiency testing scheme created in 1998
- 46 registered laboratories from 15 different countries
- This PTS is accredited by COFRAC
- 4 rounds per annual series
- For further details on samples please refer to the planning.

Nature of samples
- Apple
- Common wheat
- Cereals
- Dried mushrooms
- Ginseng
- Mint
- Oilseeds
- Potato
- Spices
- Sunflower
- Spinach
- Thyme.

Main parameters*
- Aluminum
- Arsenic
- Cadmium
- Chromium
- Cobalt
- Fluorine
- Iodine
- Mercury
- Molybdenum
- Nickel
- Lead
- Selenium
- Tin
- Dry matter.

Complementary schemes are available « 32b – Trace elements in sea product », « 32c – Trace elements in feeds», « 32d – Trace elements in food». A special price will be allocated if you cumulate these schemes.

NA => Non accredited parameter
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## 32b – Trace elements in sea products

- Proficiency testing scheme created in **1998**
- **44** registered laboratories from **16 different countries**
- This PTS is accredited by **COFRAC**
- **4** rounds per annual series
- For further details on samples please refer to the planning.

### Nature of samples

<table>
<thead>
<tr>
<th>Salmon</th>
<th>Mollusks mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>Shellfish mix</td>
</tr>
<tr>
<td>Herring</td>
<td>Seafood mix</td>
</tr>
</tbody>
</table>

### Main Parameters*

<table>
<thead>
<tr>
<th>Aluminum</th>
<th>Mercury</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>Molybdenum</td>
</tr>
<tr>
<td>Cadmium</td>
<td>Nickel</td>
</tr>
<tr>
<td>Chromium</td>
<td>Lead</td>
</tr>
<tr>
<td>Cobalt</td>
<td>Selenium</td>
</tr>
<tr>
<td>Fluorine</td>
<td>Tin</td>
</tr>
<tr>
<td>Iodine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dry matter.</td>
</tr>
</tbody>
</table>

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.

Complementary schemes are available « 32a – Trace elements in plants », « 32c – Trace elements in feeds », « 32d – Trace elements in food ». A special price will be allocated if you cumulate these schemes.
### Nature of Samples
- Barley
- Cat food / Mash cat
- Fish meal
- Laying food
- Oilseed
- Premix
- Rabbit food
- Rapeseed cake
- Soybean cake.

### Main Parameters*
- Aluminium
- Arsenic
- Cadmium
- Chromium
- Cobalt
- Fluorine
- Iodine
- Mercury
- Molybdenum
- Nickel
- Lead
- Selenium
- Tin
- Dry matter.

**Complementary schemes are available « 32a – Trace elements in plants », « 32b– Trace elements in sea products », « 32d – Trace elements in food».** A special price will be allocated if you cumulate these schemes.

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## 32d – Trace elements in food

### Nature of samples
- Biscuit for breakfast
- Common wheat
- Cheese
- Chocolate powder
- Flour
- Food supplements
- Ham
- Milk powder
- Meal of meat
- Meal substitute
- Mashed carrots
- Soup.

### Main parameters
- Aluminium
- Arsenic
- Cadmium
- Chromium
- Cobalt
- Fluorine
- Iodine
- Mercury
- Molybdenum
- Nickel
- Lead
- Selenium
- Tin
- Dry matter.

Complementary schemes are available « 32a – Trace elements in plants », « 32b– Trace elements in sea product », « 32c – Trace elements in feeds ». A special price will be allocated if you cumulate these schemes.

NA => Non accredited parameter

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*
- Proficiency testing scheme created in 2016
- This PTP is accredited by COFRAC
- 2 rounds per annual series
- For further details on samples please refer to the planning.

**NATURE OF SAMPLES**

- Cheese
- Milk powder

**MAIN PARAMETERS**

- Aluminium
- Arsenic
- Cadmium
- Chromium
- Cobalt
- Fluorine
- Iodine
- Mercury
- Molybdenum
- Nickel
- Lead
- Selenium
- Tin
- Dry matter.

**NA => Non accredited parameter**

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*
# 44a - PCB & DIOXINS IN AGRI-FOOD DOMAIN

- Proficiency testing scheme created in 2001
- This PTP is accredited by COFRAC
- 41 registered laboratories from 18 countries
- 5 rounds per annual series
- For further details on samples please refer to the planning.

## Nature of samples

- Indicator PCB (spiked)
  - Milk powder
  - Cooked meal
  - Chorizo
  - Fish
  - Smoked meat
  - Animal fat
  - Poultry meat
  - Soybean cake
  - Cereals.

- Dioxins / Furans / PCB like dioxins (without spiking)
  - Animal fat
  - Fish oil
  - Fish meal
  - Fresh fish
  - Liver of cattle
  - Liver of horse.

## Main parameters

<table>
<thead>
<tr>
<th>Indicator PCBs</th>
<th>Dioxin-like compounds</th>
<th>Dimenzofurans (PCDF)</th>
<th>Dibenzo-p-dioxins (PCDD)</th>
<th>Sum of dioxin like PCBs</th>
<th>Sum of the PCDD/PCDF</th>
<th>Further parameters according to European regulation 1259/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 28</td>
<td>PCB 77</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>PCB 52</td>
<td>PCB 81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB 101</td>
<td>PCB 126</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB 138</td>
<td>PCB 169</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB 153</td>
<td>PCB 105</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB 180</td>
<td>PCB 114</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sum of indicator PCBs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A complementary scheme is available « 44b – PAH in agri-food domain ». A special price will be allocated if you cumulate these schemes.

NA => Non accredited parameter

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# 44b – PAH in Agri-Food Domain

**Nature of Samples**

- Milk powder
- Ground coffee
- Fish
- Animal fat
- Smoked meat
- Chorizo
- Cereals
- Oils
- Cocoa in powder.

**Main Parameters*:**

- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(ghi)perylene NA
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(ah)anthracene
- Dibenz(a,e)pyrene
- Dibenz(a,h)pyrene
- Dibenz(a,i)pyrene
- Dibenz(a,l)pyrene
- Indeno(1,2,3,c,d)pyrene
- Phenanthrene
- Pyrene
- 5 - methyl-chrysene.

*A complementary scheme is available « 44a – PCB and dioxines in agri-food domain ». A special price will be allocated if you cumulate these schemes.

NA => Non accredited parameter

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**74 – Melamine in Milk**

- Proficiency testing scheme created in 2015
- 13 registered laboratories from 10 countries
- 1 round per annual series
- For further details on samples please refer to the planning.

**Nature of Sample**

- Dehydrated milk

**Main Parameters***

- Melamine
- Cyanuric acid
- Range: 0.2 to 1.5 mg/kg for melamine and cyanuric acid
- Method: ISO 15495: 2010

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*
76 – CONTAMINANTS IN DAIRY FOOD

- Proficiency testing scheme created in 2015
- 7 registered laboratories from 4 countries
- 5 rounds per annual series
- For further details on samples please refer to the planning.

NATURE OF SAMPLE

- Milk in powder form
- Cheese

MAIN PARAMETERS*

- Pesticides
- Trace elements
- M1 Aflatoxin
- PCB
- PAH
- Melamine
- Cyanuric acid

*This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.
77 – Food allergens

- Proficiency testing scheme set up as regular programs in 2016
- 8 different options
- For further details on samples please refer to the planning.

<table>
<thead>
<tr>
<th>PT</th>
<th>Matrix</th>
<th>Parameters</th>
<th>Results</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>77a</td>
<td>Infant formula (flour) Cake</td>
<td>Gluten</td>
<td>Qualitative and quantitative, if presence:</td>
<td>Elisa or PCR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Expressed in mg/kg (or mg/l)</td>
<td></td>
</tr>
<tr>
<td>77b</td>
<td>Cake mix, Pasta</td>
<td>Whole egg, egg protein, white egg protein, ovalbumine</td>
<td>Elisa or PCR</td>
<td></td>
</tr>
<tr>
<td>77c</td>
<td>Infant formula (flake food)</td>
<td>Milk, milk protein, beta-lactoglobulin, casein</td>
<td>Elisa or PCR</td>
<td></td>
</tr>
<tr>
<td>77d</td>
<td>Industrial process water</td>
<td>Egg and milk</td>
<td>Concentration of 10 to 100 mg/kg (or mg/l)</td>
<td>Elisa or PCR</td>
</tr>
<tr>
<td>77e</td>
<td>Fish</td>
<td>Histamine</td>
<td></td>
<td>Elisa or HPLC</td>
</tr>
<tr>
<td>77f</td>
<td>Dried fruits</td>
<td>Sulphites</td>
<td></td>
<td>EN 1988-1 standard (chemical) or EN 1988-2 (enzyme) standard</td>
</tr>
<tr>
<td>77g</td>
<td>Chocolate</td>
<td>Nuts</td>
<td></td>
<td>Elisa or PCR</td>
</tr>
<tr>
<td>77h</td>
<td>Meat</td>
<td>Soya</td>
<td></td>
<td>Elisa or PCR</td>
</tr>
</tbody>
</table>

NA => Non accredited parameter

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16/16