

## PROFICIENCY TESTING PROGRAMS

### FOOD CONTAMINANTS

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

**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

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Apple juice</li> <li>• Apple sauce</li> <li>• Apple concentrate</li> <li>• Cider</li> <li>• Multifruits compote</li> </ul> | <ul style="list-style-type: none"> <li>• Pommeau.</li> </ul> |
|---|--|

## MAIN PARAMETERS\*

- |  |
|--|
| <ul style="list-style-type: none"> <li>• Patulin.</li> </ul> |
|--|

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*\*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.



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## NATURE OF SAMPLES

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Coffee</li><li>• Cottonseed cattle cake</li><li>• Dried grapes</li><li>• Hazel nut</li><li>• Nuts</li><li>• Peanut cattle cake</li><li>• Pistachio paste</li><li>• Pepper</li></ul> | <ul style="list-style-type: none"><li>• Peanut paste</li><li>• Wheat</li><li>• Nutmeg</li><li>• Curry</li><li>• Peanut</li><li>• Almond powder.</li></ul> |
|---|---|

## MAIN PARAMETERS\*

- |  |
|--|
| <ul style="list-style-type: none"><li>• B1, B2, G1, G2 and M1 aflatoxins</li><li>• Ochratoxin A.</li></ul> |
|--|

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.



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### NATURE OF SAMPLES

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Feed</li> <li>• Bran</li> <li>• Barley</li> <li>• Buckwheat flour</li> <li>• Corn</li> <li>• Cornflakes</li> </ul> | <ul style="list-style-type: none"> <li>• Oat</li> <li>• Rice</li> <li>• Triticale</li> <li>• Wheat</li> <li>• Wheat draff.</li> </ul> |
|---|---|

### MAIN PARAMETERS\*

- |   |
|---|
| <ul style="list-style-type: none"> <li>• Aflatoxins B1, B2, G1, G2</li> <li>• Deoxynivalenol</li> <li>• Fumonisin B1, B2</li> <li>• Nivalenol</li> <li>• Ochratoxin A</li> <li>• T2, HT2</li> <li>• Zearalenone.</li> </ul> |
|---|

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.*

# 31c – MYCOTOXINS: BABY FOOD



- Proficiency testing scheme created in **2012**
- This PTS is accredited by **COFRAC**
- **27 registered laboratories** from **15 countries**
- **2 rounds per annual series**
- For further details on samples please refer to the planning.



## 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
- Fumonisin B1 and B2
- Nivalenol
- Ochratoxin A
- T2, HT2
- Zearalenone.

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.*

# 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

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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.



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## 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

*\*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.*

# 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

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Salmon</li> <li>• Fish</li> <li>• Herring</li> <li>• Seaweed</li> </ul> | <ul style="list-style-type: none"> <li>• Mollusks mix</li> <li>• Shellfish mix</li> <li>• Seafood mix.</li> </ul> |
|--|---|

## MAIN PARAMETERS\*

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• Aluminum</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Fluorine</li> <li>• Iodine</li> </ul> | <ul style="list-style-type: none"> <li>• Mercury</li> <li>• Molybdenum</li> <li>• Nickel</li> <li>• Lead</li> <li>• Selenium</li> <li>• Tin</li> </ul> | <ul style="list-style-type: none"> <li>• Dry matter.</li> </ul> |
|--|--|---|

**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.**

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.*



## 32c – TRACE ELEMENTS IN FEED



- Proficiency testing scheme created in **1998**
- **36 registered laboratories** from **12 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

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Barley</li> <li>• Cat food / Mash cat</li> <li>• Fish meal</li> <li>• Laying food</li> <li>• Oilseed</li> </ul> | <ul style="list-style-type: none"> <li>• Premix</li> <li>• Rabbit food</li> <li>• Rapeseed cake</li> <li>• Soybean cake.</li> </ul> |
|--|---|

### MAIN PARAMETERS\*

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Fluorine</li> <li>• Iodine</li> </ul> | <ul style="list-style-type: none"> <li>• Mercury</li> <li>• Molybdenum</li> <li>• Nickel</li> <li>• Lead</li> <li>• Selenium</li> <li>• Tin</li> </ul> | <ul style="list-style-type: none"> <li>• Dry matter.</li> </ul> |
|---|--|---|

**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.**

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.

# 32d – TRACE ELEMENTS IN FOOD



- Proficiency testing scheme created in **1998**
- **38 registered laboratories** from **14 different countries**
- This PTP is accredited by **COFRAC**
- **4 rounds per annual series**
- For further details on samples please refer to the planning.



## NATURE OF SAMPLES

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Biscuit for breakfast</li> <li>• Common wheat</li> <li>• Cheese</li> <li>• Chocolate powder</li> <li>• Flour</li> <li>• Food supplements</li> </ul> | <ul style="list-style-type: none"> <li>• Ham</li> <li>• Milk powder</li> <li>• Meal of meat</li> <li>• Meal substitute</li> <li>• Mashed carrots</li> <li>• Soup.</li> </ul> |
|--|--|

## MAIN PARAMETERS\*

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Fluorine</li> <li>• Iodine</li> </ul> | <ul style="list-style-type: none"> <li>• Mercury</li> <li>• Molybdenum</li> <li>• Nickel</li> <li>• Lead</li> <li>• Selenium</li> <li>• Tin</li> </ul> | <ul style="list-style-type: none"> <li>• Dry matter.</li> </ul> |
|---|--|---|

**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.*

# 32e – TRACE ELEMENTS IN DAIRY FOOD



- 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

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# 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

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Indicator PCB (spiked)                             <ul style="list-style-type: none"> <li>• Milk powder</li> <li>• Cooked meal</li> <li>• Chorizo</li> <li>• Fish</li> <li>• Smoked meat</li> <li>• Animal fat</li> <li>• Poultry meat</li> <li>• Soybean cake</li> <li>• Cereals.</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Dioxins / Furans / PCB like dioxins (without spiking)                             <ul style="list-style-type: none"> <li>• Animal fat</li> <li>• Fish oil</li> <li>• Fish meal</li> <li>• Fresh fish</li> <li>• Liver of cattle</li> <li>• Liver of horse.</li> </ul> </li> </ul> |
|--|--|

## MAIN PARAMETERS\*

- |   |  |          |           |          |           |           |           |           |           |           |           |           |           |   |
|---|--|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| <ul style="list-style-type: none"> <li>• Indicator PCBs :                             <ul style="list-style-type: none"> <li>• PCB 28</li> <li>• PCB 52</li> <li>• PCB 101</li> <li>• PCB 138</li> <li>• PCB 153</li> <li>• PCB 180</li> <li>Sum of indicator PCBs</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Dioxin-like compounds :                             <table border="0"> <tr> <td>• PCB 77</td> <td>• PCB 118</td> </tr> <tr> <td>• PCB 81</td> <td>• PCB 123</td> </tr> <tr> <td>• PCB 126</td> <td>• PCB 156</td> </tr> <tr> <td>• PCB 169</td> <td>• PCB 157</td> </tr> <tr> <td>• PCB 105</td> <td>• PCB 167</td> </tr> <tr> <td>• PCB 114</td> <td>• PCB 189</td> </tr> </table> </li> </ul> | • PCB 77 | • PCB 118 | • PCB 81 | • PCB 123 | • PCB 126 | • PCB 156 | • PCB 169 | • PCB 157 | • PCB 105 | • PCB 167 | • PCB 114 | • PCB 189 | <ul style="list-style-type: none"> <li>• Dibenzofurans (PCDF) <sup>NA</sup></li> <li>• Dibenzo-p-dioxins (PCDD) <sup>NA</sup></li> <li>• Sum of dioxin like PCBs <sup>NA</sup></li> <li>• Sum of the PCDD/PCDF.</li> <li>• Further parameters according to European regulation 1259/2011</li> </ul> |
| • PCB 77  | • PCB 118  |          |           |          |           |           |           |           |           |           |           |           |           |   |
| • PCB 81  | • PCB 123  |          |           |          |           |           |           |           |           |           |           |           |           |   |
| • PCB 126   | • PCB 156  |          |           |          |           |           |           |           |           |           |           |           |           |   |
| • PCB 169   | • PCB 157  |          |           |          |           |           |           |           |           |           |           |           |           |   |
| • PCB 105   | • PCB 167  |          |           |          |           |           |           |           |           |           |           |           |           |   |
| • PCB 114   | • PCB 189  |          |           |          |           |           |           |           |           |           |           |           |           |   |

**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

\*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.

## 44b – PAH IN AGRI-FOOD DOMAIN



- Proficiency testing scheme created in **2001**
- This PTP is accredited by **COFRAC**
- **34 registered laboratories** from **14 different countries**
- **5 rounds per annual series**
- For further details on samples please refer to the planning.



### NATURE OF SAMPLES

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Milk powder</li> <li>• Ground coffee</li> <li>• Fish</li> <li>• Animal fat</li> <li>• Smoked meat</li> <li>• Chorizo</li> </ul> | <ul style="list-style-type: none"> <li>• Cereals</li> <li>• Oils</li> <li>• Cocoa in powder.</li> </ul> |
|--|---|

### MAIN PARAMETERS\*

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>• Anthracene</li> <li>• Benzo(a)anthracene</li> <li>• Benzo(a)pyrene</li> <li>• Benzo(b)fluoranthene</li> <li>• Benzo(ghi)perylene<sup>NA</sup></li> <li>• Benzo(k)fluoranthene</li> </ul> | <ul style="list-style-type: none"> <li>• Chrysene</li> <li>• Dibenzo(ah)anthracene</li> <li>• Dibenzo(a,e)pyrene</li> <li>• Dibenzo(a,h)pyrene</li> <li>• Dibenzo(a,i)pyrene</li> <li>• Dibenzo(a,l)pyrene</li> <li>• Fluoranthene</li> </ul> | <ul style="list-style-type: none"> <li>• Indeno(1,2,3,c,d)pyrene</li> <li>• Phenanthrene</li> <li>• Pyrene</li> <li>• 5 - methyl-chrysene.</li> </ul> |
|---|---|---|

**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

\*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.

## 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.



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

<sup>NA</sup> => Non accredited parameter

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