

SCOPE OF ACCREDITATION

Direction de l'accréditation et des relations externes
CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC
2700, rue Einstein Bureau E-2-220
Québec, QC
G1P 3W8

Accredited Proficiency Testing Provider No. 590
(Conforms with requirements of CAN-P-43)

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SUBJECT AREA(S): Government organizations, accredited laboratories,
municipalities, industry.

FIELDS OF TESTING: Inorganics, Microbiology, Organics

PROGRAM SPECIALTY AREA: Proficiency Testing Provider

ISSUED ON: 2011-11-22

VALID TO: 2013-08-18

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.

Note: This scope of accreditation is also available in French as a separately issued document.

PROFICIENCY TESTING PARAMETERS FOR WHICH THE PROVIDER IS ACCREDITED

Environment:

Microbiology - Drinking water

Parameters**Concentrations
(min - max)**

<i>Escherichia coli</i>	0 - 100 CFU/100 ml 0 - 100 000 CFU/100ml
Fecal coliforms	0 - 100 CFU/100 ml 0 - 100 000 CFU/100ml
Fecal streptococci	0 - 100 CFU/100 ml
Heterotrophic plate count	0 - 1000 CFU/ml
<i>Pseudomonas aeruginosa</i>	0 - 100 CFU/100 ml
<i>Staphylococcus aureus</i>	0 - 100 CFU/100 ml
Total coliforms	0 - 100 CFU/100 ml 0 - 100 000 CFU/100ml
<i>Escherichia coli</i> (MPN)	0 - 2000 NPP/100 ml
Fecal coliforms (MPN)	0 - 100 000 NPP/100 ml 0 - 2000 NPP/100 ml
<i>Salmonella spp</i> (Positive/negative)	0 - 100 000 NPP/100 ml 0 - 60 CFU/100 ml
Total coliforms (MPN)	0 - 2000 NPP/100 ml 0 - 100 000 NPP/100 ml

Inorganic chemistry - Water**Parameters****Concentrations
(min - max)****Absorbable Organic Halides**

AOX	0,5 - 40 mg/l
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Nitrogen and phosphorus

Ammonia	0,07 - 8 mg/l
Total Kjeldhal nitrogen	0,5 - 20 mg/l
Orthophosphate	1 - 20 mg/l
Inorganic phosphorus	0,05 - 10 mg/l
Organic phosphorus	0,5 - 10 mg/l
Total phosphorus	0,5 - 10 mg/l

Boron

Boron	2 - 25 mg/l
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Bromates

Bromates	6 - 20 mg/l
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Bromides

Bromides	0,25 - 10 mg/l
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Total organic carbon

Total organic carbon	1 - 5 mg/l 5 - 50 mg/l
Chlorides	
Chlorides	5 - 250 mg/l 20 - 1000 mg/l
Conductivity	
Conductivity	20 - 1000 µmhos/cm 50 - 10000 µmhos/cm
Corrosivity	
Corrosivity (eau)	Non applicable
Color	
Color	5 - 2000 CoPt units
Cyanide	
Cyanide	0,02 - 2 mg/l 0,05 - 20 mg/l
Biological oxygen demand	
Biological oxygen demand (5 days)	8 - 500 mg/l
Chemical oxygen demand	
Chemical oxygen demand	15 - 1000 mg/l
Fluoride	
Fluoride	0,1 - 8 mg/l 0,7 - 20 mg/l
Phenolics	
Phenolics (4-AAP)	0,01 - 0,5 mg/l
Mercury	
Mercury	0,0002 - 0,005 mg/l 0,0005 - 0,5 mg/l
Metals	
Aluminium	5 - 50 mg/l
Antimony	0,005 - 5 mg/l
Silver	0,02 - 1 mg/l
Arsenic	0,0002 - 0,5 mg/l
Barium	0,1 - 10 mg/l 0,1 - 10 mg/l 5 - 50 mg/l
Beryllium	0,5 - 5 mg/l
Cadmium	0,002 - 25 mg/l 0,05 - 10 mg/l
Chromium	0,01 - 3 mg/l 0,5 - 10 mg/l
Cobalt	0,02 - 1 mg/l
Copper	0,01 - 5 mg/l 0,5 - 10 mg/l

Iron	5 - 50 mg/l
Magnesium	10 - 100 mg/l
Manganese	0,5 - 20 mg/l
Molybdenum	0,01-0,5 mg/l
Nickel	0,1 - 5 mg/l
Lead	0,005 - 0,1 mg/l
	0,1 - 5 mg/l
Selenium	0,002 - 0,3 mg/l
	0,5 - 5 mg/l
Sodium	5 - 100 mg/l
Thallium	1 - 10 mg/l
Zinc	0,05 - 5 mg/l
	0,5 - 20 mg/l
Vanadium	0,5 - 10 mg/l
 <i>Nitrates and nitrites</i>	
Nitrates and nitrites	1 - 10 mg/l
	1 - 100 mg/l
 <i>Nitrates</i>	
Nitrates	1 - 10 mg/l
	5 - 50 mg/l
 <i>Nitrites</i>	
Nitrites	0,05 - 5 mg/l
 <i>pH</i>	
pH	2 - 11 units
 <i>Solids</i>	
Suspended solids	20 - 500 mg/l
Volatile suspended solids	20 - 500 mg/l
Total solids	25 - 1000 mg/l
Dissolved solids	25 - 1000 mg/l
 <i>Sulphates</i>	
Sulphates	20 - 1000 mg/l
 <i>Sulphides</i>	
Sulphide	0,02 - 3 mg/l
	1 - 20 mg/l
 <i>Turbidity</i>	
Turbidity	0,3 - 25 NTU

Organic chemistry - Water***Parameters******Concentrations
(min - max)***

<i>Aldicarbe</i>	2 - 4 µg/l
Aldicarbe	
Aldicarbe sulfoxide	
Aldicarbe sulfone	
<i>PCBs Arochlor®</i>	0,1 - 10 µg/l
Total PCBs Arochlor®	
<i>Volatile organic compounds, BTEX and THM</i>	1 - 20 µg/l
1,1,1-trichloroethane	
1,1,2,2-tetrachloroethane	
1,1,2,2-tetrachloroethene	
1,1,2-trichloroethane	
1,1-dichloroethane	
Chlorobenzene	
1,1-dichloroethene	
1,2-dichlorobenzene	
1,2-dichloroethane	
1,2-dichloroethene (cis)	
1,2-dichloroethene (trans)	
1,2-dichloropropane	
1,3-dichlorobenzene	
1,3-dichloropropene (cis)	
1,3-dichloropropene (trans)	
1,4-dichlorobenzene	
Benzene (BTEX and VOC)	
Bromodichloromethane (THM)	
Bromoforme (THM)	
Chloroforme (THM and VOC)	
Vinyl chloride	
Dibromochloromethane (THM)	
Dichloromethane	
Ethylbenzene (BTEX and VOC)	
m,p-xylene (BTEX and VOC)	
o-xylene (BTEX and VOC)	
Styrene	
Carbon tetrachloride	
Toluene (BTEX and VOC)	
VOC total	
Trichloroethene	
<i>Phenolics compounds</i>	2 - 20 µg/l
2,3,4,5-tetrachlorophenol	
2,3,4,6-tetrachlorophenol	
2,3,4-trichlorophenol	
2,3,5,6-tetrachlorophenol	
2,3,5-trichlorophenol	
2,3,6-trichlorophenol	

2,3-dichlorophenol
2,4 + 2,5-dichlorophenol
2,4,5-trichlorophenol
2,4,6-trichlorophenol
2,4-dichlorophenol
2,4-dimethylphenol
2,4-dinitrophenol
2,5-dichlorophenol
2,6-dichlorophenol
2-chlorophenol
2-methyl-4,6-dinitrophenol
2-nitrophenol
3,4,5,6-tetrachloroveratrol
3,4,5-trichlorocatechol
3,4,5-trichloroguaiacol
3,4,5-trichlorophenol
3,4,5-trichlorosyringol
3,4,5-trichloroveratrol
3,4-dichlorophenol
3,5-dichlorocatechol
3,5-dichlorophenol
3-chlorophenol
4,5,6-trichloroguaiacol
4,5-dichlorocatechol
4,5-dichloroguaiacol
4,5-dichloroveratrol
4,6-dichloroguaiacol
4-chlorocatechol
4-chloroguaiacol
4-chlorophenol
4-nitrophenol
5,6-dichlorovanilline
6-chlorovanilline
Catechol
Dinitro-4,6 cresol
Eugenol
Guaiacol
Isoeugenol
m-cresol
o-cresol
p-cresol
Pentachlorophenol
Phenol
Tetrachlorocatechol
Tetrachloroguaiacol

Diquat and paraquat

Diquat

16 - 80 µg/l

Paraquat

1 - 15 µg/l

Dioxines and furans

5-100pg/l

2,3,7,8-tetrachlorodibenzodioxine
 All isomers of tetrachlorodibenzodioxines
 1,2,3,7,8-pentachlorodibenzodioxine
 All isomers of pentachlorodibenzodioxines
 1,2,3,4,7,8-hexachlorodibenzodioxine
 1,2,3,6,7,8-hexachlorodibenzodioxine
 1,2,3,7,8,9-hexachlorodibenzodioxine
 All isomers of hexachlorodibenzodioxines
 1,2,3,4,6,7,8-heptachlorodibenzodioxine
 All isomers of heptachlorodibenzodioxines
 Octachlorodibenzodioxine
 Chlorodibenzo-p-dioxines total
 2,3,7,8-tétrachlorodibenzofurane
 All isomers of tetrachlorodibenzofuranes
 1,2,3,7,8-pentachlorodibenzofurane
 2,3,4,7,8- pentachlorodibenzofurane
 All isomers of pentachlorodibenzofuranes
 1,2,3,4,7,8-hexachlorodibenzofurane
 1,2,3,6,7,8-hexachlorodibenzofurane
 1,2,3,7,8,9-hexachlorodibenzofurane
 2,3,4,6,7,8-hexachlorodibenzofurane
 All isomers of hexachlorodibenzofuranes
 1,2,3,4,6,7,8-Heptachlorodibenzofurane
 1,2,3,4,7,8,9- Heptachlorodibenzofurane
 All isomers of heptachlorodibenzofuranes
 Octachlorodibenzofurane
 Chlorodibenzo-p-furanes total

Glyphosate

Glyphosate 25 - 80 µg/l

Oil and grease, hydrocarbons C₁₀ - C₅₀

0,3 - 200 mg/l

Synthetic oil and grease (grav.)

Total oil and grease (grav.)

Hydrocarbons C₁₀ - C₅₀

Polycyclic Aromatic Hydrocarbons (PAH)

0,1 - 50 µg/l

Acenaphthene

Acenaphthylene

Anthracene

Benzo (a)anthracene

Benzo(a)pyrene (0,01 - 0,05 µg/l)

Benzo(e)pyrene

Benzo(b,j,k)fluoranthene

Benzo(c)phenanthrene

Benzo(g,h,i)perylene
 Chrysene
 Dibenzo(a,e)pyrene
 Dibenzo(a,h)acridine
 Dibenzo(a,h)anthracene
 Dibenzo(a,h)pyrene
 Dibenzo(a,i)pyrene
 Dibenzo(a,l)pyrene
 Fluorene
 Fluoranthene
 Indeno(1,2,3-cd)pyrene
 Methylchrysene
 Naphthalene
 Perylene
 Phenanthrene
 Pyrene

NTA

Nitrilotriacetic acid

50 - 200 µg/l

OP pesticides

2 - 10 µg/l

Atrazine
 Atrazine
 Atrazine and metabolites
 Azinphos methyl
 Carbaryl
 Carbofuran
 Chlorpyrifos
 Chlorothalonil
 Cyanazine
 Diazinon
 Diethyl atrazine
 Dimethoate
 Diuron
 Ethyl parathion (parathion)
 Malathion
 Metolachlor
 Metribuzin
 Myclobutanil
 Parathion
 Permethrin
 Phorate
 Simazine
 Tebuthiuron
 Terbufos
 Trifuralin

Aryloxy Acid pesticides

0,1 - 10 µg/l

2,4,5-T
 2,4-D
 2,4-DB
 Bentazon

Bromoxynil
 Dicamba
 Dichlorprop
 Fenoprop (Sylvex)
 MCPA
 Picloram
 Sylvex (Fenoprop)

OCL pesticides

0,5 - 14 µg/l

Aldrin
 Chlordane (alpha)
 Chlordane (gamma)
 Dieldrin
 Endosulfan (I et II)
 Endrin
 Heptachlor poxyde
 Heptachlor
 Lindane
 Methoxychlor
 Mirex
 p,p-DDE
 p,p-DDT

Inorganic chemistry - Effluents***Parameters******Concentrations
(min - max)******Phosphorus***

Total phosphorus

0,1 -10 mg/l

Metals

Aluminium	0,075 - 5 mg/l
Silver	0,02 - 1 mg/l
Arsenic	0,1 - 10 mg/l
Barium	0,3 - 10 mg/l
Cadmium	0,05 - 10 mg/l
Chromium	0,5 - 10 mg/l
Cobalt	1 - 10 mg/l
Copper	0,5 - 10 mg/l
Tin	0,3 - 10 mg/l
Iron	5 - 50 mg/l
Manganese	0,05 - 2 mg/l
Mercury	0,0005 - 0,5 mg/l
Molybdenum	0,1-10 mg/l
Nickel	0,5 - 10 mg/l
Lead	0,1 - 5 mg/l
Selenium	0,015 - 0,5 mg/l
Zinc	0,5 - 20 mg/l

Hexavalent chromium 0,01 - 1 mg/l

Organic chemistry Effluents**Parameters****Concentrations
(min - max)****PCBs**

PCBs congener (each) 0,02 - 5 µg/l

Polycyclic Aromatic Hydrocarbons (PAH)

Volatile Aromatic Hydrocarbons (each) 0,3 - 50µg/l

Anthracene

Benzo (a)anthracene

Benzo (b) fluoranthene

Benzo(j) fluoranthene

Benzo (k) fluotanthene

Benzo(g,h,i)perylene

Chrysene

Dibenzo(a)pyrene

Dibenzo(e)pyrene

Dibenzo(a,h)anthracene

Dibenzo(a,i)pyrene

Fluorene

Fluoranthene

Indéno(1,2,3-cd)pyrene

Naphthalene

Phénanthrene

Pyrene

Volatile organic compounds (each)

1 à 20 µg/l

Benzene

1,1,2,2-tétrachloroethane

1,2-dichlorobenzene

1,2-dichloroethene (cis)

1,2-dichloroethene (trans)

1,3-dichloropropene (cis)

1,3-dichloropropene (trans)

1,4-dichlorobenzene

Dichloromethane

Semi-volatile organic compounds (each)

1 à 20 µg/l

3,3 -dichlorobenzidine

All isomers of nonylphenol

10 - 300 µg /

1

Polyethoxylates nonylphenol

40 - 300 µg/l

NP1EO

NP2EO

NP3EO

NP4EO

NP5EO

NP6EO

NP7EO

NP8EO

NP9EO

NP10EO

NP11EO

NP12EO

NP13EO

NP14EO

NP15EO

NP16EO

NP17EO

Inorganic chemistry - Soils, sludge, oil***Parameters******Concentrations******(min - max)******Nitrogen and phosphorus (soil)***

Ammonia	0,04 - 25 mg/kg
Total Kjeldhal nitrogen	1 - 100 mg/kg
Nitrates and nitrites	0,02 - 1,5 mg/kg
Inorganic phosphorus	0,01 - 25 mg/kg
Total phosphorus	1 - 35 mg/kg

Metals (soil)

Aluminium	0,03 - 75 g/kg
Silver	10 - 40 mg/kg
Arsenic	7 - 100 mg/kg
Barium	20 - 2000 mg/kg
Boron	20 - 500 mg/kg
Cadmium	2,5 - 100 mg/kg
Calcium	0,1 - 350 g/kg
Chromium	1000 - 2000 mg/kg
Cobalt	25 - 1500 mg/kg
Copper	50 - 2000 mg/kg
Tin	5 - 300 mg/kg
Magnesium	0,1 - 100 g/kg
Manganese	0,01 - 5 g/kg
Mercury	1 - 25 mg/kg
Molybdenum	5 - 200 mg/kg
Nickel	50 - 2000 mg/kg
Lead	100 - 2000 mg/kg
Potassium	0,1 - 15 g/kg

Selenium	1,5 - 25 mg/kg	
Zinc	250 - 3000 mg/kg	
<i>Bromides</i> (soil)		
Bromides	25 - 600 mg/kg	
<i>Total halogenes</i> (Oil)		
Total Halogenes	800 - 4500 mg/kg	
<i>Leaching (TCLP)</i> (soil)		
Leaching (TCLP)	0,5 - 20 mg/l	
<i>Solids</i> (sludge)		
Total solids	2 - 300 g/kg	
Volatile total solids	2 - 200 g/kg	
<i>pH</i> (sludge)		
pH	2 - 11 units	
<i>pH</i> (agricultural ground)		
pH (water)		4 - 8 units
pH (tampon)		5 - 8 units
<i>Metals</i> (agricultural ground)		
Aluminium	500 - 2500 mg/kg	
Calcium	500 - 15000 kg / ha	
	0,5 - 20 kg / t	
Copper	1 - 10 mg / kg	
Magnesium	50 - 1000 kg / ha	
	0,02 - 0,1 kg / t	
Manganese	5 - 200 mg / kg	
Potassium	50 - 1000 kg / ha	
	0,5 - 5 kg / t	
Zinc	1 - 20 mg / kg	
<i>Nitrates</i> (agricultural ground)		
Nitrates	2 - 50 mg / kg	
<i>Boron</i> (agricultural ground)		
Boron (Mehlich III)	0,1 - 2 mg / kg	
<i>Phosphorus</i> (agricultural ground)		
Assimilable phosphorus	50 - 500 kg / ha	
Total phosphorus	0,1 - 3 kg / t	
<i>Organic matter</i> (agricultural ground)		
Organic matter	1 - 220 %	

Loss on ignition (agricultural ground)

Loss on ignition 1 - 50 %

Nitrogen (agricultural ground)

Ammonia 0,2 - 10 kg / t

Total nitrogen 0,2 - 40 kg / t

Ashes (agricultural ground)

Ashes 5 - 50 %

Organic chemistry - Soils, oil**Parameters****Concentration
(min - max)****PCBs Arochlor®** (soil)

Total PCBs Arochlor 0,5 - 50 mg/kg

PCBs Arochlor® (oil)

Total PCBs Arochlor 1 - 100 mg/kg

PCBs congener (soil)

0,017 - 0,8 mg/kg

PCBs congener

8; 2, 4' ,Di-BPC

15 ; 4,4' ; Di-BPC

18 ; 2,2',5 ; Tri-BPC

17 ; 2,2',4 ; Tri-BPC

16 ; 2,2',3 ; Tri-BPC & 32; 2,4',6 ; Tri-BPC

28 ; 2,4,4' ; Tri-BPC & 31 ; 2,4',5 ; Tri-BPC

33 ; 2',3,4 ; Tri-BPC

22 ; 2,3,4' ; Tri-BPC

52 ; 2,2',5,5' ; Tetra-BPC

49 ; 2,2',4,5' ; Tetra-BPC

44 ; 2,2',3,5' ; Tetra-BPC

74 ; 2,4,4',5 ; Tetra-BPC

70 ; 2,3',4',5 ; Tetra-BPC

66 ; 2,3',4,4' ; Tetra-BPC

95 ; 2,2',3,5',6 ; Penta-BPC

101 : 2,2',4,5,5' ; Penta-BPC

99 : 2,2',4,4',5 ; Penta-BPC

87 ; 2,2',3,4,5' ; Penta-BPC

110 ; 2,3,3',4',6 ; Penta-BPC

82 ; 2,2',3,3',4 ; Penta-BPC

118 ; 2,3',4,4',5 ; Penta-BPC

105 ; 2,3,3',4,4' ; Penta-BPC

151 : 2,2',3,5,5',6 ; Hexa-BPC

149 ; 2,2',3,4',5',6 ; Hexa-BPC
 153 ; 2,2',4,4',5,5' ; Hexa-BPC
 132 ; 2,2',3,3',4,6' ; Hexa-BPC
 138 ; 2,2',3,4,4',5' ; Hexa-BPC
 158 ; 2,3,3',4,4',6 ; Hexa-BPC
 128 ; 2,2',3,3',,4,4' ; Hexa-BPC
 156 ; 2,3,3',4,4',5 ; Hexa-BPC
 169 ; 3,3',4,4',5,5' ; Hexa-BPC
 187 ; 2,2',3,4',5,5',6 ; Hepta-BPC
 183 ; 2,2',3,4,4',5',6 ; Hepta-BPC
 177 ; 2,2',3,3',4',5,6 ; Hepta-BPC
 171 ; 2,2',3,3',4,4',6 ; Hepta-BPC
 180 ; 2,2',3,4,4',5,5' ; Hepta-BPC
 191 ; 2,3,3',4,4',5',6 ; Hepta-BPC
 170 ; 2,2',3,3',4,4',5 ; Hepta-BPC
 199 ; 2,2',3,3',4,5,5',6' ; Octa-BPC
 195 ; 2,2',3,3',4,4',5,6 ; Octa-BPC
 194 ; 2,2',3,3',4,4',5,5' ; Octa-BPC
 205 ; 2,3,3',4,4',5,5',6 ; Octa-BPC
 208 ; 2,2',3,3',4,5,5',6,6' ; Nona-BPC
 206 ; 2,2',3,3',4,4',5,5',6 ; Nona-BPC
 209 ; 2,2',3,3',4,4',5,5',6,6' ; Deca-BPC

Volatile organic compound and BTEX (soil)

0,1 - 100 mg/kg

1,1,1-trichloroethane
 1,1,2,2-tetrachloroethane
 1,1,2,2-tetrachloroethene
 1,1,2-trichloroethane
 1,1-dichloroethane
 1,1-dichloroethene
 1,2-dichlorobenzene
 1,2-dichloroethane
 1,2-dichloroethene (cis)
 1,2-dichloroethene (trans)
 1,2-dichloropropane
 1,3-dichlorobenzene
 1,3-dichloropropene (cis)
 1,3-dichloropropene (trans)
 1,4-dichlorobenzene
 Benzene
 Chlorobenzene
 Chloroforme
 Chlorure de vinyle
 Dichloromethane
 Ethylbenzene
 m,p-xylene
 o-xylene
 Styrene
 Carbon tetrachloride
 Toluene
 VOC total
 Trichloroethene

Phenolic compound (soil)

0,1 - 50 mg/kg

2,3,4,5-tetrachlorophenol
2,3,4,6-tetrachlorophenol
2,3,4-trichlorophenol
2,3,5,6-tetrachlorophenol
2,3,5-trichlorophenol
2,3,6-trichlorophenol
2,3-dichlorophenol
2,4,5-trichlorophenol
2,4,6-trichlorophenol
2,4-dichlorophenol
2,4-dimethylphenol
2,4-dinitrophenol
2,5-dichlorophenol
2,6-dichlorophenol
2-chlorophenol
2-methyl-4,6-dinitrophenol
2-nitrophenol
3,4,5-trichlorophenol
3,4-dichlorophenol
3,5-dichlorophenol
3-chlorophenol
4,6-dinitrocresol
4-chlorophenol
4-nitrophenol
m-cresol
o-cresol
p-cresol
Pentachlorophenol
Phenol
Phenolic compound total

Dioxines and furans

100-1500 pg/g

2,3,7,8-tetrachlorodibenzodioxine

All isomers of

tetrachlorodibenzodioxines

1,2,3,7,8-pentachlorodibenzodioxine

All isomers of

pentachlorodibenzodioxines

1,2,3,4,7,8-hexachlorodibenzodioxine
1,2,3,6,7,8-hexachlorodibenzodioxine
1,2,3,7,8,9-hexachlorodibenzodioxine
All isomers of

hexachlorodibenzodioxines

1,2,3,4,6,7,8-heptachlorodibenzodioxine

All isomers of

heptachlorodibenzodioxines

Octachlorodibenzodioxine

Chlorodibenzo-p-dioxines total

2,3,7,8-tétrachlorodibenzofurane

All isomers of

tetrachlorodibenzofuranes

1,2,3,7,8-pentachlorodibenzofurane

2,3,4,7,8- pentachlorodibenzofurane

All isomers of

pentachlorodibenzofuranes

1,2,3,4,7,8-hexachlorodibenzofurane

1,2,3,6,7,8-hexachlorodibenzofurane

1,2,3,7,8,9-hexachlorodibenzofurane

2,3,4,6,7,8-hexachlorodibenzofurane

All isomers of

hexachlorodibenzofuranes

1,2,3,4,6,7,8-Heptachlorodibenzofurane

1,2,3,4,7,8,9-

Heptachlorodibenzofurane

All isomers of

heptachlorodibenzofuranes

Octachlorodibenzofurane

Chlorodibenzo-p-furanes total

Polycyclic Aromatic Hydrocarbons (PAH)

(soil)

0,1 - 100 mg/kg

Acenaphthene

Acenaphthylene

Anthracene

Benzo (a)anthracene

Benzo(a)pyrene

Benzo(e)pyrene

Benzo(b,j,k)fluoranthene

Benzo(c)phenanthrene

Benzo(g,h,i)perylene

Chrysene

Dibenzo(a,e)pyrene

Dibenzo(a,h)acridine

Dibenzo(a,h)anthracene

Dibenzo(a,h)pyrene

Dibenzo(a,i)pyrene

Dibenzo(a,l)pyrene

Fluorene

Fluoranthene

Indeno(1,2,3-cd)pyrene

Methylchrysene

Naphthalene

Perylene

Phenanthrene

Pyrene

Hydrocarbons C₁₀ - C₅₀ (soil)

Hydrocarbon C₁₀ -

C₅₀

mg/kg

350 - 10000

Inorganic chemistry - Fish farming

Parameters

Concentration (min - max)

Phosphorus

Phosphorus

0,002 - 4 mg P / l

Phosphorus content

1000 - 25 000 mg / kg

Suspended solids

Suspended solids

4 - 50 mg / l

Moisture content

Moisture content

2 - 15 %

Food

Inorganic chemistry - Food

Parameters

Concentration (min - max)

Metals (grinded and lyophilized tomato)

Arsenic

0,2 - 30 mg/kg

Cadmium

0,2 - 30 mg/kg

Copper

3 - 480 mg / kg

Iron

3 - 480 mg / kg

Molybdenum

0,2 - 30 mg/kg

Lead

0,2 - 30 mg/kg

Selenium	0,2 - 30 mg/kg
Zinc	3 - 480 mg / kg
Metals (grinded and lyophilized chicken)	
Arsenic	0,2 - 30 mg/kg
Cadmium	0,2 - 30 mg/kg
Copper	3 - 480 mg / kg
Iron	3 - 480 mg / kg
Molybdenum	0,2 - 30 mg/kg
Lead	0,2 - 30 mg/kg
Selenium	0,2 - 30 mg/kg
Zinc	3 - 480 mg / kg

Notes:

CAN-P-43:2010: Conformity assessment - General requirements for proficiency testing (ISO/IEC 17043:2010)

S. Cross, Director, Conformity Assessment

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