

600-55 Metcalfe Street
Ottawa, ON K1P 6L5
Canada

55, rue Metcalfe, bureau 600
Ottawa, ON K1P 6L5
Canada

SCOPE OF ACCREDITATION

CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC

Direction de l'accréditation et de la qualité

2700, rue Einstein

Québec, QC

G1P 3W8

Accredited Proficiency Testing Provider No. 590
(Conforms with requirements of ISO/IEC 17043)

CONTACT: Katy St-Pierre
TEL: +1 450 664 1750 ext. 264
FAX: +1 450 661 8512
EMAIL: katy.st-pierre@mddelcc.gouv.qc.ca
URL: <http://www.ceaeq.gouv.qc.ca>

SUBJECT AREA(S): Government organizations, Ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques accredited laboratories

FIELDS OF TESTING: Inorganics, Microbiology, Organics

PROGRAM SPECIALTY AREA: Proficiency Testing Provider

SCOPE ISSUED ON: 2018-04-16

ACCREDITATION VALID TO: 2021-08-18

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
<i>Fecal coliforms</i>	0 - 100 CFU/100 ml 0 - 100 000 CFU/100ml
<i>Fecal streptococci</i>	0 - 100 CFU/100 ml
<i>Heterotrophic plate count</i>	0 - 300 000 CFU/ml
<i>Pseudomonas aeruginosa</i>	0 - 100 CFU/100 ml
<i>Staphylococcus aureus</i>	0 - 100 CFU/100 ml
<i>Total coliforms</i>	0 - 100 CFU/100 ml 0 - 100 000 CFU/100ml
<i>Salmonella spp</i> (Positive/negative)	0 - 60 CFU/100 ml

Inorganic chemistry - Water

Parameters	Concentrations (min - max)
Absorbable Organic Halides	
AOX	0.5 - 40 mg/l
Nitrogen and phosphorus	
Ammonia	0.07 - 8 mg/l 0.5 - 20 mg/l
Total Kjeldahl nitrogen	1 - 20 mg/l
Orthophosphate	0.05 - 10 mg/l
Inorganic phosphorus	0.5 - 10 mg/l
Organic phosphorus	0.5 - 10 mg/l
Total phosphorus	0.5 - 10 mg/l
Boron	
Boron	2 - 25 mg/l
Bromates	
Bromates	6 - 20 mg/l
Bromides	
Bromides	0.25 - 10 mg/l
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	Non applicable

Color Color	5 - 2000 CoPt units
Cyanide Cyanide	0.015 - 0.1 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 Antimony Silver Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Lead Selenium Sodium Thallium Zinc Vanadium	5 - 50 mg/l 0.005 - 5 mg/l 0.02 - 1 mg/l 0.0002 - 0.5 mg/l 0.1 - 10 mg/l 0.1 - 10 mg/l 5 - 50 mg/l 0.5 - 5 mg/l 0.002 - 25 mg/l 0.05 - 10 mg/l 0.01 - 3 mg/l 0.5 - 10 mg/l 0.02 - 1 mg/l 0.01 - 5 mg/l 0.5 - 10 mg/l 5 - 50 mg/l 10 - 100 mg/l 0.5 - 20 mg/l 0.01 - 0.5 mg/l 0.1 - 5 mg/l 0.005 - 0.1 mg/l 0.1 - 5 mg/l 0.002 - 0.3 mg/l 0.5 - 5 mg/l 5 - 100 mg/l 1 - 10 mg/l 0.05 - 5 mg/l 0.5 - 20 mg/l 0.5 - 10 mg/l
Nitrates and nitrites Nitrates and nitrites	1 - 10 mg/l 1 - 100 mg/l

Nitrates	
Nitrates	1 - 10 mg/l 5 - 50 mg/l
Nitrites	
Nitrites	0.05 - 5 mg/l
pH	
pH	2 - 11 units
Radionucleides	
Tritium	0.1 - 10 Bq/l
Radium 226	0.05 - 10 Bq/l
Solids	
Suspended solids	10 - 500 mg/l
Volatile suspended solids	10 - 500 mg/l
Total solids	25 - 1000 mg/l
Dissolved solids	25 - 1000 mg/l
Sulphates	
Sulphates	2 - 50 mg/l
Sulphides	
Sulphides	0.02 - 3 mg/l 1 - 20 mg/l
Turbidity	
Turbidity	0.3 - 25 NTU

body

Proficiency Testing Parameters (f):

Organic chemistry - Water

Parameters	Concentrations (min - max)
Aldicarbe	2 - 4 µg/l
Aldicarbe	
Aldicarbe sulfoxide	
Aldicarbe sulfone	
PCBs Aroclor®	0.1 - 10 µg/l
Total PCBs Aroclor®	
Volatile organic compounds, BTEX and THM	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	
Phenolics compounds	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 Paraquat	16 - 80 µg/l 1 - 15 µg/l
Dioxines and furans 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-tetrachlorodibenzofurane 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	5 - 100 pg/l

All isomers of heptachlorodibenzofuranes Octachlorodibenzofurane Chlorodibenzo-p-furanes total	
Glyphosate Glyphosate	25 - 80 µg/l
Oil and grease, hydrocarbons C₁₀ - C₅₀ Synthetic oil and grease (grav.) Total oil and grease (grav.) Hydrocarbons C ₁₀ - C ₅₀	0.3 - 200 mg/l
Polycyclic Aromatic Hydrocarbons (PAH) 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	0.1 - 50 µg/l
NTA Nitrilotriacetic acid	50 - 200 µg/l
OP pesticides Atrazine Atrazine and metabolites Azinphos methyl Carbaryl Carbofuran Chloropyrifos Chlorothalonil Cyanazine Diazinon Diethyl atrazine Dimethoate	2 - 10 µg/l

Diuron Ethyl parathion (parathion) Malathion Metolachlor Metribuzin Myclobutanil Parathion Permethrin Phorate Simazine Tebuthiuron Terbufos Trifuralin	
Aryloxy Acid pesticides 2,4,5-T 2,4-D 2,4-DB Bentazon Bromoxynil Dicamba Dichlorprop Fenoprop (Sylvex) MCPA (0.5 - 50 µg/l) Picloram Sylvex (Fenoprop)	0.1 - 10 µg/l
OCL pesticides Aldrin Chlordane (alpha) Chlordane (gamma) Dieldrin Endosulfan (I and II) Endrin Heptachlor epoxyde Heptachlor Lindane Methoxychlor Mirex p,p-DDE p,p-DDT	0.5 - 14 µg/l

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) Polycyclic Aromatic Hydrocarbons (each) Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenzo(a)pyrene Dibenzo(e)pyrene Dibenzo(a,h)anthracene Dibenzo(a,i)pyrene Fluorene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	0.3 - 50 µg/l
Volatile organic compounds (each) Benzene 1,1,2,2-tétrachloroethane 1,2-dichlorobenzene 1,2-dichloroethene (cis) 1,2-dichloroethene (trans) 1,3-dichloropropene (cis)	1 - 20 µg/l

1,3-dichloropropene (trans)	
1,4-dichlorobenzene	
Dichloromethane	
Semi-volatile organic compounds (each)	1 - 20 µg/l
3,3-dichlorobenzidine	
All isomers of nonylphenol	10 - 300 µg/l
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 Kjeldahl 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
Bromides (soil)	
Bromides	25 - 600 mg/kg
Total halogenes (Oil)	
Total Halogenes	800 - 4500 mg/kg
Leaching (TCLP) (soil)	
Leaching (TCLP)	0.5 - 20 mg/l
Solids (sludge)	
Total solids	2 - 300 g/kg
Volatile total solids	2 - 200 g/kg
pH (sludge)	
pH	2 - 11 units
pH (agricultural ground)	
pH (water)	4 - 8 units
pH (tampon)	5 - 8 units
Metals (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
Nitrates (agricultural ground)	
Nitrates	2 - 50 mg/kg
Boron (agricultural ground)	
Boron (Mehlich III)	0.1 - 2 mg/kg
Phosphorus (agricultural ground)	
Assimilable phosphorus	50 - 500 kg/ha
Total phosphorus	0.1 - 3 kg/t
Organic matter (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	Concentrations (min - max)
PCBs Aroclor® (soil) Total PCBs Aroclor	0.5 - 50 mg/kg
PCBs Aroclor® (oil) Total PCBs Aroclor	1 - 100 mg/kg
PCBs congener (soil) PCBs congener 8 ; 2, 4' ; Di-PCB 15 ; 4,4' ; Di-PCB 18 ; 2,2',5 ; Tri-PCB 17 ; 2,2',4 ; Tri-PCB 16 ; 2,2',3 ; Tri-PCB & 32; 2,4',6 ; Tri-PCB 28 ; 2,4,4' ; Tri-PCB & 31 ; 2,4',5 ; Tri-PCB 33 ; 2',3,4 ; Tri-PCB 22 ; 2,3,4' ; Tri-PCB 52 ; 2,2',5,5' ; Tetra-PCB 49 ; 2,2',4,5' ; Tetra-PCB 44 ; 2,2',3,5' ; Tetra-PCB 74 ; 2,4,4',5 ; Tetra-PCB 70 ; 2,3',4',5 ; Tetra-PCB 66 ; 2,3',4,4' ; Tetra-PCB 95 ; 2,2',3,5',6 ; Penta-PCB 101 ; 2,2',4,5,5' ; Penta-PCB 99 ; 2,2',4,4',5 ; Penta-PCB 87 ; 2,2',3,4,5' ; Penta-PCB 110 ; 2,3,3',4',6 ; Penta-PCB 82 ; 2,2',3,3',4 ; Penta-PCB 118 ; 2,3',4,4',5 ; Penta-PCB 105 ; 2,3,3',4,4' ; Penta-PCB 151 ; 2,2',3,5,5',6 ; Hexa-PCB 149 ; 2,2',3,4',5',6 ; Hexa-PCB 153 ; 2,2',4,4',5,5' ; Hexa-PCB 132 ; 2,2',3,3',4,6' ; Hexa-PCB 138 ; 2,2',3,4,4',5' ; Hexa-PCB 158 ; 2,3,3',4,4',6 ; Hexa-PCB 128 ; 2,2',3,3',4,4' ; Hexa-PCB 156 ; 2,3,3',4,4',5 ; Hexa-PCB 169 ; 3,3',4,4',5,5' ; Hexa-PCB 187 ; 2,2',3,4',5,5',6 ; Hepta-PCB 183 ; 2,2',3,4,4',5',6 ; Hepta-PCB 177 ; 2,2',3,3',4',5,6 ; Hepta-PCB 171 ; 2,2',3,3',4,4',6 ; Hepta-PCB 180 ; 2,2',3,4,4',5,5' ; Hepta-PCB 191 ; 2,3,3',4,4',5',6 ; Hepta-PCB 170 ; 2,2',3,3',4,4',5 ; Hepta-PCB 199 ; 2,2',3,3',4,5,5',6' ; Octa-PCB 195 ; 2,2',3,3',4,4',5,6 ; Octa-PCB 194 ; 2,2',3,3',4,4',5,5' ; Octa-PCB	0.017 - 0.8 mg/kg

205 ; 2,3,3',4,4',5,5',6 ; Octa-PCB	
208 ; 2,2',3,3',4,5,5',6,6' ; Nona-PCB	
206 ; 2,2',3,3',4,4',5,5',6 ; Nona-PCB	
209 ; 2,2',3,3',4,4',5,5',6,6' ; Deca-PCB	
Volatile organic compound and BTEX (soil)	
1,1,1-trichloroethane	0.1 - 100 mg/kg
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	
Vinyl chloride	
Dichloromethane	
Ethylbenzene	
m,p-xylene	
o-xylene	
Styrene	
Carbon tetrachloride	
Toluene	
VOC total	
Trichloroethene	
Phenolic compound (soil)	
2,3,4,5-tetrachlorophenol	0.1 - 50 mg/kg
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 Total Phenolic compound	
Dioxines and furans 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-tetrachlorodibenzofurane 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 Total Chlorodibenzo-p-furanes	100 - 1500 pg/g
Polycyclic Aromatic Hydrocarbons (PAH) (soil) Acenaphtene Acenaphtylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(e)pyrene	0.1 - 100 mg/kg

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)	350 - 10000 mg/kg
Hydrocarbons C ₁₀ - C ₅₀	

Inorganic chemistry Fish farming

Parameters	Concentrations (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	Concentrations (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

Parameters	Concentrations (min - max)
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

Food**Organic chemistry - Food**

Parameters	Concentrations (min - max)
Pesticides (grinded and lyophilized tomato)	
Organochlorine pesticides	0.1 - 50 mg/kg
Organophosphorus pesticides	0.1 - 50 mg/kg
Carbamates pesticides	0.1 - 50 mg/kg

Microbiology - Food

Parameters	Concentrations (min - max)
Cheese	< 5 - 100 000 CFU/g
<i>Escherichia coli</i>	Detected/Non detected
<i>Salmonella</i> (Presence/Absence)	detected
<i>Staphylococcus aureus</i>	< 5 - 100 000 CFU/g

Parameters	Concentrations (min - max)
Eggs	< 5 - 100 000 CFU/g
Coliforms	Detected/Non detected
<i>Salmonella</i> (Presence/Absence)	detected
Standard Plate Count	< 5 - 100 000 CFU/g

Parameters	Concentrations (min - max)
Feeds	
<i>Salmonella</i> (Presence/absence)	Detected/Non detected

Parameters	Concentrations (min - max)
Meat	< 5 - 100 000 CFU/g
Coliforms	< 5 - 100 000 CFU/g
<i>Escherichia coli</i>	Detected/Non detected
<i>Salmonella</i> (Presence/Absence)	
Standard Plate Count	< 5 - 100 000 CFU/g
<i>Staphylococcus aureus</i>	< 5 - 100 000 CFU/g

Parameters	Concentrations (min - max)
Skim Milk	< 5 - 100 000 CFU/g
Coliforms	Detected/Non detected
<i>Salmonella</i> (Presence/Absence)	
Standard Plate Count	< 5 - 100 000 CFU/g

Microbiology - Air

Parameters	Concentrations (min - max)
Bacteria in air	
Bacteria numeration	< 1 - 300 CFU/m ³
Bacteria identification	Genus and species

Parameters	Concentrations (min - max)
Molds in air	
Molds numeration	< 1 - 100 CFU/m ³
Molds identification	Genus and species

Parameters	Concentrations (min - max)
Legionella	
<i>Legionella</i> ssp.	5000 10000000 CFU/l
<i>Legionella pneumophila</i>	5000 10000000 CFU/l

Notes:

ISO/IEC 17043:2010: Conformity assessment - General requirements for proficiency testing

Elias Rafoul, Vice President
Accreditation Services

Date: 2018-04-16

Number of Parameters: 571
SCC 1003-15/739