



PROFICIENCY TESTING PROVIDER (PTP) ACCREDITATION PROGRAM

Scope of Accreditation

Accredited Laboratory No. 590

Legal Name of Accredited Laboratory: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC

Operating as: Direction de l'accréditation et de la qualité

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SCC File Number:	15739
Provider:	BNQ-EL
Provider File Number:	45814-3
Accreditation Standard(s):	ISO/IEC 17043
Fields of Testing:	Microbiology - water / air, Inorganics - water / solids / oils, Organics - water / solids / oils
Initial Accreditation:	2005-08-18
Most Recent Accreditation:	2019-12-15
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 – Water

Parameters	Concentrations (min - max)
Total coliforms	0 - 100 CFU/100 ml 0 - 100 000 CFU/100 ml
Fecal coliforms	0 - 100 CFU/100 ml 0 - 100 000 CFU/100 ml
<i>Fecal streptococci</i>	0 - 100 CFU/100 ml
<i>Escherichia coli</i>	0 - 100 CFU/100 ml 0 - 100 000 CFU/100 ml
Heterotrophic plate count	0 - 300 000 CFU/100 ml
<i>Pseudomonas aeruginosa</i>	0 - 100 CFU/100 ml
<i>Staphylococcus aureus</i>	0 - 100 CFU/100 ml
<i>Salmonella</i> (Positive/Negative)	0 - 60 CFU/100 ml

Inorganic chemistry - Water

Parameters	Concentrations (min - max)
Absorbable Organic Halides	
AOX	0.5 - 40 mg/l
Ammonia nitrogen	0.07 - 20 mg N/l
Total Kjeldahl nitrogen	1 - 20 mg N/l
Orthophosphate	0.05 - 10 mg P/l
Total phosphorus	0,002 - 10 mg P/l
Boron	2 - 50 mg/l
Bromates	6 - 20 µg/l
Bromides	0.25 - 10 mg/l
Total organic carbon	1 - 50 mg/l
Chlorides	5 - 1000 mg/l
Conductivity	50 - 10000 µmhos/cm
Corrosivity	5 - 15 mm/year
Color	5 - 2000 CoPt units
Cyanide	0.015 - 20 mg/l
Biological oxygen demand (5 days)	8 - 500 mg O ₂ /l
Chemical oxygen demand	15 - 1 000 mg O ₂ /l
Fluoride	0,1 - 20 mg/l
Phenolics (colorimetric method)	0,01 – 0,5 mg/l
Mercury	0,0002 – 0,5 mg/l
Metals	
Aluminium	0,075 - 50 mg/l
Antimony	0,03 - 5 mg/l
Silver	0,05 - 1 mg/l



Arsenic	0,0002 - 10 mg/l
Barium	0,1 - 50 mg/l
Beryllium	0,002 - 5 mg/l
Cadmium	0,002 - 10 mg/l
Chromium	0,01 - 10 mg/l
Cobalt	0,02 - 10 mg/l
Copper	0,01 - 10 mg/l
Iron	0,02 - 100 mg/l
Magnesium	1 - 100 mg/l
Manganese	0,005 - 20 mg/l
Molybdenum	0,01 - 0,5 mg/l
Nickel	0,006 - 10 mg/l
Lead	0,003 - 5 mg/l
Selenium	0,002 - 10 mg/l
Sodium	2 - 200 mg/l
Thallium	0,005 - 10 mg/l
Zinc	0,05 - 20 mg/l
Vanadium	0,015 - 10 mg/l
Hexavalent chrome	0,01 - 1 mg/l
Nitrates and nitrites	0,006 - 100 mg N/l
Nitrates	1 - 50 mg N/l
Nitrites	0.05 - 5 mg N/l
pH	2 - 11 units
Radionucleides	
Tritium	100 - 70 000 Bq/l
Radium 226	0.05 - 10 Bq/l
Suspended solids	4 - 500 mg/l
Volatile suspended solids	10 - 500 mg/l
Total solids	25 - 1000 mg/l
Dissolved solids	25 - 1000 mg/l
Sulphates	2 - 1000 mg/l
Sulphides	0.02 - 20 mg/l
Turbidity	0.3 - 25 NTU

Organic chemistry - Water

Parameters	Concentrations (min - max)
Aldicarbe Aldicarbe Aldicarbe sulfoxide Aldicarbe sulfone	2 - 4 µg/l
PCBs Aroclor® Total PCBs Aroclor®	0.1 - 10 µg/l
Volatile organic compounds, BTEX and THM 1,1,1-trichloroethane 1,1,2,2-tetrachloroethane 1,1,2,2-tetrachloroethene 1,1,2-trichloroethane	1 - 20 µg/l



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) Total volatil organic compound (VOC) Trichloroethene	
Phenolics compounds 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	2 - 20 µg/l



<p>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</p>	
<p>Diquat and paraquat Diquat Paraquat</p>	<p>16 - 80 µg/l 1 - 15 µg/l</p>
<p>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</p>	<p>5 - 100 pg/l</p>



Octachlorodibenzofurane Chlorodibenzo-p-furanes total	
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 Diuron Ethyl parathion (parathion) Malathion Metolachlor Metribuzin Myclobutanil Parathion	0,05 - 70 µg/l



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	0,055 - 14 µg/l

Inorganic chemistry - Effluents

Parameters	Concentrations (min - max)
Total phosphorus	0,1 - 10 mg P/l
Metals	
Aluminium	0,075 - 5 mg/l
Silver	0,02 - 1 mg/l
Arsenic	0,1 - 10 mg/l
Barium	0,1 - 10 mg/l
Cadmium	0,002 - 10 mg/l
Chromium	0,3 - 10 mg/l
Cobalt	0,005 - 10 mg/l
Copper	0,01 - 10 mg/l
Tin	0,05 - 10 mg/l
Iron	0,2 - 50 mg/l
Manganese	0,05 - 2 mg/l



Mercury	0,0001 - 0.5 mg/l
Molybdenum	0,1 - 10 mg/l
Nickel	0,006 - 10 mg/l
Lead	0,003 - 5 mg/l
Selenium	0,015 – 0,5 mg/l
Zinc	0,02 - 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)	0,1 - 50 µg/l
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	
Volatile organic compounds (each)	1 - 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 - 50 µg/l
3,3-dichlorobenzidine	
Bis(2-ethylhexyl)phthalate	
Dibutyl phthalate	
All isomers of nonylphenol	10 - 300 µg/l
Polyethoxylates nonylphenol (each)	2 - 300 µg/l
NP1EO	
NP2EO	
NP3EO	



NP4EO NP5EO NP6EO NP7EO NP8EO NP9EO NP10EO NP11EO NP12EO NP13EO NP14EO NP15EO NP16EO NP17EO	
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Inorganic chemistry – Solids (soil, sludge, waste) and oils

Parameters	Concentrations (min - max)
Nitrogen and phosphorus (solids)	
Ammonia nitrogen	0,04 - 25 g N/kg
Total Kjeldahl nitrogen	1 - 100 g N/kg
Nitrates and nitrites	0,02 - 1,5 g N/kg
Inorganic phosphorus	0,01 - 25 g P/kg
Total phosphorus	1 - 35 g P/kg
Metals (solids)	
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	100 - 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



Available Bromides (solids)	25 - 600 mg/kg
Total halogenes (oils)	800 - 4500 mg/kg
Leaching (TCLP) (solids)	0,5 - 20 mg/l
Solids	
Total solids	2 - 300 g/kg
Volatile total solids	2 - 200 g/kg
pH (solids)	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 - 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)	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)	1 - 100 %
Loss on ignition (agricultural ground)	1 - 50 %
Nitrogen (agricultural ground)	
Ammonia nitrogen	0,2 - 10 kg/t
Total nitrogen	0,2 - 40 kg/t
Ashes (agricultural ground)	5 - 50 %

Organic chemistry - Solids (soil, sludge, waste) and oils

Parameters	Concentrations (min - max)
PCBs Aroclor® (solids)	0,5 - 50 mg/kg
Total PCBs Aroclor	
PCBs Aroclor® (oils)	1 - 100 mg/kg
Total PCBs Aroclor	
PCBs congener (solids)	0,017 - 0.8 mg/kg
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 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 (solids) 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	0.1 - 100 mg/kg



Chlorobenzene Chloroform Vinyl chloride Dichloromethane Ethylbenzene m,p-xylene o-xylene Styrene Carbon tetrachloride Toluene VOC total Trichloroethene	
Phenolic compound (solids) 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 Total Phenolic compound	0.1 - 50 mg/kg
Dioxines and furans (solids) 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	1 - 1500 pg/g



<p>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</p>	
<p>Polycyclic Aromatic Hydrocarbons (PAH) (solids) Acenaphtene Acenaphtylene 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</p>	0,01 - 100 mg/kg
<p>Hydrocarbons C₁₀ - C₅₀ (soil) Hydrocarbons C₁₀ - C₅₀</p>	100 - 10000 mg/kg

Inorganic chemistry – Fish farming

Parameters	Concentrations (min - max)
Phosphorus	
Phosphorus content	1000 - 25 000 mg/kg
Suspended solids	4 - 50 mg/l



Moisture content	2 - 15 %
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Microbiology - Air

Parameters	Concentrations (min - max)
Bacteria in air Bacteria numeration Bacteria identification	< 1 - 300 CFU/m ³ Genus and species
Molds in air Molds numeration Molds identification	< 1 - 100 CFU/m ³ Genus and species
Legionella <i>Legionella ssp.</i> <i>Legionella pneumophila</i>	5000 – 10000000 CFU/l 5000 – 10000000 CFU/l

Notes:

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

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice President, Accreditation Services
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