

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory: AGAT Laboratories LTD.

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To ensure compliance with the *Official Languages Act*, the Standards Council of Canada (SCC) translated proprietary content from English to French when it was not available in French. In case of discrepancies between the English and French versions, the original version of the method prevails.

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| SCC File Number: | 15806 |
| Accreditation Standard(s): | ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories |
| Fields of Testing: | Biological Chemical/Physical |
| Program Specialty Area: | Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET) Test Method Development and Non-routine Testing (TMDNRT) |
| Initial Accreditation: | 2009-01-12 |
| Most Recent Accreditation: | 2024-06-25 |
| Accreditation Valid to: | 2029-01-12 |

TEST METHOD DEVELOPMENT AND NON-ROUTINE TESTING

Description of activities – Chemical Analysis:

Food samples: Food and edible products: edible animal fat, dairy products, eggs.

For verification and use new matrices for commercially available 3M and Neogen test kits used for the screening and determination of food allergens in food samples.

Description of techniques – Chemical Analysis:

1. Sample preparation/extraction techniques including homogenization and extraction for ELISA methods
 2. Enzyme linked immunosorbent assay (ELISA.) via commercial Neogen and 3M kits.
- A current list of all food matrices and allergen testing kits is maintained by the laboratory.

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products (Human and Animal Consumption):

(Chemicals Tests)

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| FC-102-15001F | Determination of ash Applicable matrix: Food products Device/Technique: Gravimetry |
| FC-102-15002F | Determination of total dietary fibres Applicable matrix: Food products Device/Technique: Enzymatic hydrolysis |
| FC-102-15003F | Determination of carbohydrates, caloric value, and energy content Applicable matrix: Food products Device/Technique: N/A Calculation |
| FC-102-15005F | Determination of moisture and total solids Applicable matrix: Food products Device/Technique: Gravimetry |
| FC-102-15006F | Determination of total fat Applicable matrices: Meat and derivatives Device/Technique: Extraction on Soxhlet |
| FC-102-15007F | Determination of protein/nitrogen Applicable matrix: Food products Device/Technique: Digestion and Kjeldahl Distillation |
| FC-102-15008F | Determination of cholesterol Applicable matrix: Food products Device/Technique: GC-FID |

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| FC-102-15009F | Determination of total fat content Applicable matrices: Food products containing: Flour and derivatives, Fish and derivatives, Eggs, Cheese, Salad dressings; Mixed food products containing meat and vegetables and/or pasta; Sweet products. Device/Technique: Acid hydrolysis/Gravimetry |
| FC-102-15010F | Determination of total fat content Applicable matrices: Milk and milk products excluding cheese Device/Technique: Mojonnier/Gravimetry |
| FC-102-15011F | Determination of fatty acid, saturated and unsaturated Applicable matrix: Food products Device/Technique: GC-FID |
| FC-102-15012F | Determination of metals Applicable matrix: Food products Device/Technique: ICP-OES (Emission Spectrometry inductively coupled plasma optics) Note: This method is also applicable for MET-101-6107F (see the Environmental section) Metals : As, Cd, Pb, Ca, Cu, Fe, Mg, Mn, K, Na, Zn, P, Se |
| FC-102-15014F | Determination of total fat Applicable matrices: Cocoa and chocolate products excluding white chocolate Device/Technique: Gravimetry |
| FC-102-15016F | Determination of salt Applicable matrix: Food products Device/Technique: Color titration |
| FC-102-15029F | Determination of sugars (fructose, glucose, galactose, sucrose, maltose, lactose) Applicable matrix: Food products Device/Technique: HPLC with RID detector |
| FC-102-15050F | Quantitative determination of allergens by the Elisa method with Neogen Applicable matrix: Food Products Device/Technique: ELISA |

(Microbiological Tests)

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| MFHPB-10 | Isolation of <i>Escherichia coli</i> O157:H7/NM from foods and environmental surface samples Applicable matrices: Food products and environmental samples (surfaces) Device/Technique: Selective Enrichment / Isolation |
| MFHPB-18 | Determination of the Aerobic Colony Counts in Foods Applicable matrices: Food products Device/Technique: Incorporation |
| MFHPB-19 | Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in foods using the MPN Method Applicable matrices: Food products and water, |

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| | Device /Technique: Multiple Tubes / Most Probable Number |
| MFHPB-20 | Isolation and Identification of <i>Salmonella</i> from food and environmental samples Applicable matrices: Food and environmental products Device /Technique: Selective Enrichment / Isolation |
| MFHPB-21 | Enumeration of <i>Staphylococcus aureus</i> in foods Applicable matrices: Food and environmental products Device/Technique: Spreading/Isolation |
| MFHPB-22 | Enumeration of Yeasts and Moulds in foods Applicable matrices: Food Device/Technique: Spreading |
| MFHPB-23 | Enumeration of <i>Clostridium perfringens</i> in foods Applicable matrices: Food products Device/Technique: Incorporation/Isolation |
| MFHPB-30 | Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> from foods and environmental samples Applicable matrices: Food and environmental products Apparatus/Technique: Selective Enrichment / Isolation |
| MFHPB-32 | Enumeration of Yeast and Mold in Food Products and Food Ingredients Using 3M™ Petrifilm™ Yeast and Mold Count Plates Applicable matrices: Food products (except dark colored products) and environmental products Apparatus/Technique: Petrifilm™ Plates |
| MFHPB-33 | Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates Applicable matrices: Food products (except dark colored products) and environmental products Apparatus/Technique: Petrifilm™ Plates |
| MFHPB-34 | Enumeration of <i>Escherichia coli</i> and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ <i>E. coli</i> Count Plates Applicable matrices: Food products (except dark colored products) and environmental products Apparatus/Technique: Petrifilm™ Plates |
| MFLP-09 | Enumeration of <i>Enterobacteriaceae</i> species in Food and Environmental Samples Using 3M™ Petrifilm™ <i>Enterobacteriaceae</i> Count Plates Applicable matrices: the following foods (cheddar cheese, milk, flour, frozen broccoli, frozen prepared meals, nuts, and sprouted seeds (soy, alfalfa, and Other germs) and environmental samples. Apparatus/Technique: Petrifilm™ Plates |
| MFLP-21 | Enumeration of <i>Staphylococcus aureus</i> in Foods and Environmental Samples Using 3MT Petrifilm™ Staph Express Count (STX) Plates Applicable matrices: Food products (except dark colored products) and environmental products Apparatus/Technique: Petrifilm™ Plates |

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| MFLP-28 | <p>Detection of <i>Listeria monocytogenes</i> in a Variety of Foods and Environmental Surfaces Using the Bax® System <i>L.monocytogenes</i> Assay</p> <p>Applicable matrices: All foods and on a variety of environmental surfaces</p> <p>Device/Technique: Selective enrichment/Q7 or X5 instruments of the BAX® system. (PCR)/Isolation</p> |
| MFLP-29 | <p>Detection of <i>Salmonella</i> in Foods and Environmental Surface Samples Using the BAX® System <i>Salmonella</i> Assay</p> <p>Applicable matrices: All foods and on a variety of environmental surface samples</p> <p>Device/Technique: Selective enrichment/Q7 or X5 instruments of the BAX® system. (PCR)/Isolation</p> |
| MFLP-30 | <p>Detection of <i>Escherichia coli</i> O157:H7 in Select Foods using the BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP</p> <p>Applicable matrices: Dairy products, raw meats, ready-to-eat meat and poultry products, fruit and vegetable products and dry cereals and dry feeds in the miscellaneous foods category</p> <p>Device/Technique: Selective enrichment/Q7 or X5 instruments of the BAX® system. (PCR)/Isolation</p> |
| MFLP-38 | <p>Detection of <i>Salmonella spp.</i> from all foods and selected environmental surfaces using iQ-Check™ <i>Salmonella</i> Real-Time PCR Test Kit</p> <p>Applicable matrices: All foods and on a variety of environmental surfaces.</p> <p>Device/Technique: Selective enrichment/ The iQ-Check kit (PCR)/ Isolation</p> |
| MFLP-39 | <p>Detection of <i>Listeria spp.</i> from Environmental Surfaces and Heat Processed Ready to Eat Meat and Poultry Using iQ-Check™ <i>Listeria spp.</i> Real-Time PCR Test Kit</p> <p>Applicable matrices: various environmental surfaces and on heat-treated foods in the ready-to-eat meat and poultry category.</p> <p>Device/Technique: Selective enrichment/ The iQ-Check kit (PCR)/ Isolation</p> |
| MFLP-42 | <p>Isolation and Enumeration of the <i>Bacillus cereus</i> Group in Foods</p> <p>Applicable matrices: Naturally contaminated foods such as meats, vegetables, dairy products, grains and dehydrated foods</p> <p>Device/Technique: Sprawling/Isolation</p> |
| MFLP-43 | <p>Determination of <i>Enterobacteriaceae</i></p> <p>Applicable matrices: Naturally contaminated foods</p> <p>Device/Technique: Incorporation/Isolation</p> |
| MFLP-54 | <p>Detection of <i>Listeria monocytogenes</i> from selected foods using iQ-Check™ <i>Listeria monocytogenes</i> Real-Time PCR Test Kit</p> <p>Applicable matrices: Ready-to-eat meat and poultry, fruit and vegetable products (except raw processed vegetables), fish and seafood products (except smoked fish), and frozen and frozen dairy products fermented.</p> <p>Device/Technique: Selective enrichment/ The iQ-Check kit (PCR)/ Isolation</p> |
| MFLP-74 | <p>Enumeration of <i>Listeria monocytogenes</i> in foods</p> <p>Applicable matrices: all foods.</p> |

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| | Device/Technique: Spreading/Isolation |
| MFLP-100 | Detection of <i>Salmonella spp.</i> in Foods Using the 3M™ Molecular Detection System Test Kit Version 2 Applicable matrices: All foods except chocolate products, spices, powdered dairy products and whole nuts. Device/Technique: Selective enrichment/Molecular detection assays (MDS)/Isolation |
| MFLP-101 | Detection of <i>Listeria spp.</i> in Environmental Surface Samples Using the 3M™ Molecular Detection System Test Kit Version 2 Applicable matrices: samples taken from a variety of environmental surfaces. Device/Technique: Selective enrichment/Molecular detection assays (MDS)/Isolation |
| MFLP-111 | Detection of <i>Listeria monocytogenes</i> in Foods Using the 3M™ Molecular Detection System Test Kit Version 2 Applicable matrices: The categories of raw meat products, fruit and vegetable products, for the types of “other” foods in the ready-to-eat meat and poultry category, the types of “raw” foods and the types of “frozen” foods in the dairy products category and the “raw fish and shellfish” food types and the “frozen” food types in the fish and seafood category. Device/Technique: Selective enrichment/Molecular detection assays (MDS)/Isolation |
| MIC-102-7076F | Enumeration of lactic acid bacteria by 3M™ Petrifilm Applicable matrices: Food Products Device/Technique: 3M™ Petrifilm |
| MLG 4.14 | Isolation and Identification of <i>Salmonella</i> from Meat, Poultry, Pasteurized Egg, and Siluriformes (Fish) Products and Carcass and Environmental Sponges Applicable matrices: Various samples of meat, poultry, egg, Fermented products, Dried products, Ready-to-eat products made from meat, poultry and siluriformes (fish), sponge and rinse, Device/Technique: Selective enrichment/Molecular detection assays (MDS)/Isolation |
| MLG 41.07 | Isolating and Identifying <i>Campylobacter jejuni/coli/lari</i> from Poultry Rinse, Sponge and Raw Product Samples Applicable matrices: samples of poultry rinses, poultry carcasses, environmental sponges and raw poultry products. Device/Technique: Selective enrichment/Molecular detection assays (MDS)/Isolation |

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

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| <p>HR-151-5400F</p> | <p>Determination of Dioxins and Furans by GC-MS/MS (Reference methods: Environment Canada ESP1/RM/19, US-EPA 1613, CEAEQ MA 400-D. F. 1.0, US-EPA 23, US-EPA TO-9A) Applicable matrices: Water, soil, sediment, leachates, tissue and air. Device/Technique: APGC (Waters Atmospheric Pressure Gas Chromatography)</p> <p>Compounds:</p> <table data-bbox="428 611 1240 1104"> <tr> <td>2,3,7,8-Tetra CDD</td> <td>1,2,3,4,6,7,8-Hepta CDF</td> </tr> <tr> <td>1,2,3,7,8-Penta CDD</td> <td>1,2,3,4,7,8,9-Hepta CDF</td> </tr> <tr> <td>1,2,3,4,7,8-Hexa CDD</td> <td>OctaCDF</td> </tr> <tr> <td>1,2,3,6,7,8-Hexa CDD</td> <td>Sum of Tetra CDDs</td> </tr> <tr> <td>1,2,3,7,8,9-Hexa CDD</td> <td>Summation of Penta CDDs</td> </tr> <tr> <td>1,2,3,4,6,7,8-Hepta CDD</td> <td>Summation of Hexa CDD</td> </tr> <tr> <td>Octa CDD</td> <td>Summation of CDD Hepta</td> </tr> <tr> <td>2,3,7,8-Tetra CDF</td> <td>Summation of PCDDs</td> </tr> <tr> <td>1,2,3,7,8-Penta CDF</td> <td>Summation of Tetra CDFs</td> </tr> <tr> <td>2,3,4,7,8-Penta CDF</td> <td>Summation of Penta CDFs</td> </tr> <tr> <td>1,2,3,4,7,8-Hexa CDF</td> <td>Summation of Hexa CDFs</td> </tr> <tr> <td>1,2,3,6,7,8-Hexa CDF</td> <td>Summation of Hepta CDFs</td> </tr> <tr> <td>2,3,4,6,7,8-Hexa CDF</td> <td>Summation of PCDFs</td> </tr> <tr> <td>1,2,3,7,8,9-Hexa CDF</td> <td></td> </tr> </table> | 2,3,7,8-Tetra CDD | 1,2,3,4,6,7,8-Hepta CDF | 1,2,3,7,8-Penta CDD | 1,2,3,4,7,8,9-Hepta CDF | 1,2,3,4,7,8-Hexa CDD | OctaCDF | 1,2,3,6,7,8-Hexa CDD | Sum of Tetra CDDs | 1,2,3,7,8,9-Hexa CDD | Summation of Penta CDDs | 1,2,3,4,6,7,8-Hepta CDD | Summation of Hexa CDD | Octa CDD | Summation of CDD Hepta | 2,3,7,8-Tetra CDF | Summation of PCDDs | 1,2,3,7,8-Penta CDF | Summation of Tetra CDFs | 2,3,4,7,8-Penta CDF | Summation of Penta CDFs | 1,2,3,4,7,8-Hexa CDF | Summation of Hexa CDFs | 1,2,3,6,7,8-Hexa CDF | Summation of Hepta CDFs | 2,3,4,6,7,8-Hexa CDF | Summation of PCDFs | 1,2,3,7,8,9-Hexa CDF | |
| 2,3,7,8-Tetra CDD | 1,2,3,4,6,7,8-Hepta CDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3,7,8-Penta CDD | 1,2,3,4,7,8,9-Hepta CDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexa CDD | OctaCDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexa CDD | Sum of Tetra CDDs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexa CDD | Summation of Penta CDDs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Hepta CDD | Summation of Hexa CDD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Octa CDD | Summation of CDD Hepta | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetra CDF | Summation of PCDDs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HR-151-5401F | <p>Determination of PCB congeners Applicable matrices: Waters, soils. Device/Technique: APGC (Waters Atmospheric Pressure Gas Chromatography)</p> <p>Compounds:</p> <table border="0"> <tr> <td>CI-3 IUPAC 31+28</td> <td>CI-6 IUPAC 128</td> </tr> <tr> <td>CI-3 IUPAC 33</td> <td>CI-6 IUPAC 156</td> </tr> <tr> <td>CI-4 IUPAC 52</td> <td>CI-6 IUPAC 169</td> </tr> <tr> <td>CI-4 IUPAC 49</td> <td>CI-7 IUPAC 187</td> </tr> <tr> <td>CI-4 IUPAC 44</td> <td>CI-7 IUPAC 183</td> </tr> <tr> <td>CI-4 IUPAC 74</td> <td>CI-7 IUPAC 177</td> </tr> <tr> <td>CI-4 and CI-5 IUPAC 70+95</td> <td>CI-7 IUPAC 171</td> </tr> <tr> <td>CI-5 IUPAC 101</td> <td>CI-7 IUPAC 180</td> </tr> <tr> <td>CI-5 IUPAC 99</td> <td>CI-7 IUPAC 191</td> </tr> <tr> <td>CI-5 IUPAC 87</td> <td>CI-7 IUPAC 170</td> </tr> <tr> <td>CI-5 IUPAC 110</td> <td>CI-8 IUPAC 199</td> </tr> <tr> <td>CI-5 and CI-6 IUPAC 82+151</td> <td>CI-8 IUPAC 195</td> </tr> <tr> <td>CI-5 IUPAC 118</td> <td>CI-8 IUPAC 194</td> </tr> <tr> <td>CI-5 IUPAC 105</td> <td>CI-8 IUPAC 205</td> </tr> <tr> <td>CI-6 IUPAC 149</td> <td>CI-9 IUPAC 208</td> </tr> <tr> <td>CI-6 IUPAC 153</td> <td>CI-9 IUPAC 206</td> </tr> <tr> <td>CI-6 IUPAC 132</td> <td>CI-10 IUPAC 209</td> </tr> <tr> <td>CI-6 IUPAC 138-158</td> <td></td> </tr> </table> | CI-3 IUPAC 31+28 | CI-6 IUPAC 128 | CI-3 IUPAC 33 | CI-6 IUPAC 156 | CI-4 IUPAC 52 | CI-6 IUPAC 169 | CI-4 IUPAC 49 | CI-7 IUPAC 187 | CI-4 IUPAC 44 | CI-7 IUPAC 183 | CI-4 IUPAC 74 | CI-7 IUPAC 177 | CI-4 and CI-5 IUPAC 70+95 | CI-7 IUPAC 171 | CI-5 IUPAC 101 | CI-7 IUPAC 180 | CI-5 IUPAC 99 | CI-7 IUPAC 191 | CI-5 IUPAC 87 | CI-7 IUPAC 170 | CI-5 IUPAC 110 | CI-8 IUPAC 199 | CI-5 and CI-6 IUPAC 82+151 | CI-8 IUPAC 195 | CI-5 IUPAC 118 | CI-8 IUPAC 194 | CI-5 IUPAC 105 | CI-8 IUPAC 205 | CI-6 IUPAC 149 | CI-9 IUPAC 208 | CI-6 IUPAC 153 | CI-9 IUPAC 206 | CI-6 IUPAC 132 | CI-10 IUPAC 209 | CI-6 IUPAC 138-158 | |
| CI-3 IUPAC 31+28 | CI-6 IUPAC 128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-3 IUPAC 33 | CI-6 IUPAC 156 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CI-4 IUPAC 44 | CI-7 IUPAC 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC 74 | CI-7 IUPAC 177 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CI-5 IUPAC 87 | CI-7 IUPAC 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC 110 | CI-8 IUPAC 199 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CI-6 IUPAC 132 | CI-10 IUPAC 209 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-6 IUPAC 138-158 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6000F | <p>Determination of alkalinity, soluble carbonates and bicarbonates Applicable matrix: Water Device/Technique: PC-Titrate</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6004F | <p>Determination of anions Anions: Chlorides, Fluorides, Nitrite, Nitrates, Sulfates, Bromides Applicable matrices: Water (all), soil (all), leachate (nitrites and nitrates only) Device/Technique: Ion chromatography</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6006F | <p>Determination of biological oxygen demand (BOD in 5 days) Applicable matrix: Water Device/Technique: Automated Analyzer</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6016F | <p>Determination of conductivity Applicable matrices: Waters, soils. Device/Technique: PC-Titrate, Manual conductivity meter</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6021F | <p>Determination of pH Applicable matrices: Waters, soils. Device/Technique: PC-Titrate and Manual pH-Meter</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INOR-101-6028F | <p>Gravimetric determination of total suspended solids and volatile suspended solids (TSS, VSS) Applicable matrix: Water Device/Technique: Gravimetry</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| INOR-101-6042F | Determination of chemical oxygen demand (COD) Applicable matrix: Water Device/Technique: Automated Analyzer |
| INOR-101-6044F | Determination of turbidity Applicable matrix: Water Device/Technique: Turbidimeter (nephelometry) |
| INOR-101-6048F | Determination of total Kjeldahl nitrogen and total phosphorous Applicable matrices: Water, Soil, Sediment and Mud Device/Technique: Automated colorimetric analyzer |
| INOR-101-6051F | Determination of ammonia nitrogen Applicable matrices: Water, Soil, Sediment and Mud Device/Technique: Automated colorimetric analyzer (Discrete analyser) |
| INOR-101-6056F | Determination of Carbon and sulfur Applicable matrices: Soil, Sediment and Mud Device/Technique: Infrared Spectrometry |
| INOR-101-6061F | Determination of total cyanide and total and free cyanide Applicable matrices: Water (total, oxidizable and available cyanides), soil (total and available cyanides) Device/Technique: Automated colorimetric analyzer (continuous flow analyzer). |
| INOR-101-6062F | Determination of total phenols in water and leachate Applicable matrices: Water, leachate Device/Technique: Automated colorimetric analyzer (continuous flow analyzer) |
| INOR-101-6068F | Determination of particles in air samples Applicable matrix: Air (filters, rinsing solvent and falling dust) Device/Technique: Gravimetry |
| MET-101-6102F | Determination of mercury, total dissolved mercury Applicable matrices: Water, soil/mud/sediment, air, leachate, smear, fish, fluorescent bulbs Device/Technique: CVAAS (Cold vapor atomic absorption spectroscopy) and CVAAF (Cold vapor atomic fluorescence) |
| MET-101-6105F | Determination of metals, Dissolved metals, Total extractable and acid-soluble metals Applicable matrices: Water, soil, mud, sediment, air, leachate, smear, fish and fluorescent bulbs Device/Technique: ICP-MS Metals: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn, Zr, Te . |
| MET-101-6107F | Determination of metals, Dissolved metals, Total extractable and acid-soluble metals Applicable matrices: Water, soil/mud/sediment, air, leachate, smear, fish, fluorescent bulbs Device/Technique: ICP-OES (Inductively Coupled Plasma Optical Emission Spectrometry) Metals: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn, Zr, Th, W, La, Nb, Te, Rb, SC, Ga, Cs, Ce, Mercury. |

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| <p>ORG-100-5101F</p> | <p>Determination of volatile organic compounds in water and soils (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of volatile organic compounds in water and soil: dosage by "Purge and Trap" coupled with a gas chromatograph and a mass Spectrometer, MA 400 – COV 2.0, Rev. 4, Quebec Ministry of Sustainable Development, Environment and the Fight against Climate Change, 2015-02-03, 13 p).</p> <p>Applicable matrices: Water, soil/mud/sediment, leachate, swab Device/Technique: GC/MS coupled to a HeadSpace</p> | | | |
| <p>Compounds:</p> | | | | |
| Dichlorofluoromethane | Toluene | 1,2-Dichloropropane | Sec-butylbenzene | |
| Chloromethane | 1,3- Dichloropropane | Trichloroethane | 1,3-Dichlorobenzene | |
| Vinyl Chloride | Dibromochloromethane | Bromodichloromethane | 1,4-Dichlorobenzene | |
| Bromomethane | 1,2-Dibromoethane | 2-chloroethylvinyle-ether | 1,2,3-trimethylbenzène | |
| Chloroethane | Tetrachloroethane | Cis-1,3-Dichloropropene | 1,2-Dichlorobenzène | |
| Trichlorofluoromethane | 1,1,1,2-Tetrachloroethane | Trans-1,3-Dichloropropene | n-butylbenzene | |
| 1,1-Dichloroethane | Chlorobenzene | 1,1,2-Trichloroethane | 1,2,4-Trichlorobenzene | |
| Dichloromethane | Ethylbenzene | Acroleine | Hexachlorobutadiene | |
| Acrylonitrile | m+p-xylenes | Acetone | T-Butanol | |
| Trans-1,2-Dichloroethane | Bromoforme | Methyl Ethyl Cetone (MEK) | Terta-butyl ethyl ether (TBE) | |
| Methyl-t-Butyl Ether (MTBE) | Styrene | Methyl Isobutyl Cetone (MIBK) | Tert-Amyl ethyl ether (TAE) | |
| 1,1-Dichloroethane | 1,1,2,2-tetrachloroethane | 2-Hexanone | 1,2,3-trichloropropane | |
| Cis-1,2-Dichloroethane | o-xylene | T-Butanol | Bromobenzene | |
| Chloroforme | Isopropylbenzene | Disulfure de carbone | 2-chlorotoluene | |
| 1,2-Dichloroethane | n-propylbenzene | Bromochloromethane | 4-chlorotoluene | |
| 1,1,1-Trichloroethane | 1,3,5-trimethylbenzene | 2,2-dichloropropane | α-metyl styrene | |
| Carbon Tetrachloride | Tert-butylbenzene | 1,1-dichloropropene | p-isopropyltoluene | |
| Benzene | 1,2,4-trimethylbenzene | Dibromomethane | 1,2-dibromo-3-chloropropane | |

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| <p>ORG-100-5102F</p> | <p>Determination of polycyclic aromatic hydrocarbons in water soil/mud/sediment, leachate and swab. (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of polycyclic aromatic hydrocarbons: determination by gas chromatography coupled with a mass spectrometer. MA. 400 – HAP 1.1, Rev.4, Ministry of Sustainable Development, of the Environment and the Fight against Climate Change, 2016, 21 p) Applicable matrices: Water, soil/mud/sediment, leachate, swab Device/Technique: GC/MS</p> <p>Compounds:</p> <table border="0"> <tr> <td>Acenaphtene</td> <td>Chrysène</td> </tr> <tr> <td>Aenaphtylene</td> <td>Dibenzo (a,h) anthracene</td> </tr> <tr> <td>Anthracene</td> <td>Dibenzo (a,i) pyrene</td> </tr> <tr> <td>Benzo (a) anthracène</td> <td>Dibenzo (a,h) pyrene</td> </tr> <tr> <td>Benzo (a) pyrene</td> <td>Dibenzo (a,l) pyrene</td> </tr> <tr> <td>Benzo (b) fluoranthene</td> <td>Fluoranthene</td> </tr> <tr> <td>Benzo (j) fluoranthene</td> <td>Dimethyl-7,12 benzo (a) anthracene</td> </tr> <tr> <td>Benzo (k) fluoranthene</td> <td>Fluorene</td> </tr> <tr> <td>Benzo (c) phenanthrene</td> <td>Indeno (1,2,3-cd) pyrene</td> </tr> <tr> <td>Benzo (g,h,i) perylene</td> <td>Naphtalene</td> </tr> <tr> <td>Methyl-1 naphtalene</td> <td>Phenanthrene</td> </tr> <tr> <td>Methyl-2 naphtalene</td> <td>Pyrene</td> </tr> <tr> <td>Dimethyl-1,3 naphtalene</td> <td>3-Methylcholanthrene</td> </tr> <tr> <td>2,3,5-trimethylnaphtalene</td> <td></td> </tr> </table> | Acenaphtene | Chrysène | Aenaphtylene | Dibenzo (a,h) anthracene | Anthracene | Dibenzo (a,i) pyrene | Benzo (a) anthracène | Dibenzo (a,h) pyrene | Benzo (a) pyrene | Dibenzo (a,l) pyrene | Benzo (b) fluoranthene | Fluoranthene | Benzo (j) fluoranthene | Dimethyl-7,12 benzo (a) anthracene | Benzo (k) fluoranthene | Fluorene | Benzo (c) phenanthrene | Indeno (1,2,3-cd) pyrene | Benzo (g,h,i) perylene | Naphtalene | Methyl-1 naphtalene | Phenanthrene | Methyl-2 naphtalene | Pyrene | Dimethyl-1,3 naphtalene | 3-Methylcholanthrene | 2,3,5-trimethylnaphtalene | |
| Acenaphtene | Chrysène | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aenaphtylene | Dibenzo (a,h) anthracene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anthracene | Dibenzo (a,i) pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (a) anthracène | Dibenzo (a,h) pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (a) pyrene | Dibenzo (a,l) pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (b) fluoranthene | Fluoranthene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (j) fluoranthene | Dimethyl-7,12 benzo (a) anthracene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (k) fluoranthene | Fluorene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (c) phenanthrene | Indeno (1,2,3-cd) pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo (g,h,i) perylene | Naphtalene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methyl-1 naphtalene | Phenanthrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methyl-2 naphtalene | Pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimethyl-1,3 naphtalene | 3-Methylcholanthrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3,5-trimethylnaphtalene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <p>ORG-100-5103F</p> | <p>Determination of phenols in soil and sediment (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC, Determination of phenolic compounds: determination by gas phase chromatography coupled with a mass Spectrometer after derivation with acetic anhydride. MY. 400– Phe1.0, Rev. 3, Ministry of Sustainable Development, Environment, Wildlife and Parks of Quebec, 2013, 20 p). Applicable matrices: Soil, sediment Device/Technique: GC/MS</p> <p>Compounds:</p> <table border="0"> <tr> <td>Phenol</td> <td>Dichloro-2,3 phenol</td> </tr> <tr> <td>o-Cresol</td> <td>Dichloro-3,4 phenol</td> </tr> <tr> <td>m-Cresol</td> <td>Trichloro-2,4,6 phenol</td> </tr> <tr> <td>p-Cresol</td> <td>Trichloro-2,3,6 phenol</td> </tr> <tr> <td>Dimethyl-2,4 phenol</td> <td>Trichloro-2,3,5 phenol</td> </tr> <tr> <td>Nitro-2 phenol</td> <td>Trichloro-2,4,5 phenol</td> </tr> <tr> <td>Nitro-4 phenol</td> <td>Trichloro-2,3,4 phenol</td> </tr> <tr> <td>Chloro-2 phenol</td> <td>Trichloro-3,4,5 phenol</td> </tr> <tr> <td>Chloro-3 phenol</td> <td>Tetrachloro-2,3,5,6 phenol</td> </tr> <tr> <td>Chloro-4 phenol</td> <td>Tetrachloro-2,3,4,6 phenol</td> </tr> <tr> <td>2,6-dichlorophenol</td> <td>Tetrachloro-2,3,4,5 phenol</td> </tr> <tr> <td>2,4 + 2,5-dichlorophenol</td> <td>Pentachlorophenol</td> </tr> <tr> <td>3,5-dichlorophenol</td> <td></td> </tr> </table> | Phenol | Dichloro-2,3 phenol | o-Cresol | Dichloro-3,4 phenol | m-Cresol | Trichloro-2,4,6 phenol | p-Cresol | Trichloro-2,3,6 phenol | Dimethyl-2,4 phenol | Trichloro-2,3,5 phenol | Nitro-2 phenol | Trichloro-2,4,5 phenol | Nitro-4 phenol | Trichloro-2,3,4 phenol | Chloro-2 phenol | Trichloro-3,4,5 phenol | Chloro-3 phenol | Tetrachloro-2,3,5,6 phenol | Chloro-4 phenol | Tetrachloro-2,3,4,6 phenol | 2,6-dichlorophenol | Tetrachloro-2,3,4,5 phenol | 2,4 + 2,5-dichlorophenol | Pentachlorophenol | 3,5-dichlorophenol | |
| Phenol | Dichloro-2,3 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| o-Cresol | Dichloro-3,4 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| m-Cresol | Trichloro-2,4,6 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| p-Cresol | Trichloro-2,3,6 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimethyl-2,4 phenol | Trichloro-2,3,5 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitro-2 phenol | Trichloro-2,4,5 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitro-4 phenol | Trichloro-2,3,4 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloro-2 phenol | Trichloro-3,4,5 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloro-3 phenol | Tetrachloro-2,3,5,6 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloro-4 phenol | Tetrachloro-2,3,4,6 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,6-dichlorophenol | Tetrachloro-2,3,4,5 phenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4 + 2,5-dichlorophenol | Pentachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,5-dichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <p>ORG-100-5107F</p> | <p>Determination of PCB Congeners. (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of polychlorinated biphenyls: determination by gas chromatography coupled with a mass Spectrometer or an electron capture detector – method by congener and homologous group, MA. 400 – BPC 1.0, rev. 5, Quebec Ministry of Sustainable Development, Environment and the Fight against Climate Change, 2014, 35 p).</p> <p>Applicable matrices: Water,soil/mud/sediment, oil, solvent, leachate Device/Technique: GC/MS</p> <p>Compounds:</p> <table border="0"> <tr> <td>CI-3 IUPAC #17+18</td> <td>CI-6 IUPAC #158+138</td> </tr> <tr> <td>CI-3 IUPAC #28+31</td> <td>CI-7 IUPAC #187</td> </tr> <tr> <td>CI-3 IUPAC #33</td> <td>CI-7 IUPAC #183</td> </tr> <tr> <td>CI-4 IUPAC #52</td> <td>CI-6 IUPAC #128</td> </tr> <tr> <td>CI-4 IUPAC #49</td> <td>CI-7 IUPAC #177</td> </tr> <tr> <td>CI-4 IUPAC #44</td> <td>CI-7 IUPAC #171</td> </tr> <tr> <td>CI-4 IUPAC #74</td> <td>CI-6 IUPAC #156</td> </tr> <tr> <td>CI-4 IUPAC #70</td> <td>CI-7 IUPAC #180</td> </tr> <tr> <td>CI-5 IUPAC #95</td> <td>CI-7 IUPAC #191</td> </tr> <tr> <td>CI-5 IUPAC #101</td> <td>CI-6 IUPAC #169</td> </tr> <tr> <td>CI-5 IUPAC #99</td> <td>CI-7 IUPAC #170</td> </tr> <tr> <td>CI-5 IUPAC #87</td> <td>CI-8 IUPAC #199</td> </tr> <tr> <td>CI-5 IUPAC #110</td> <td>CI-9 IUPAC #208</td> </tr> <tr> <td>CI-5 IUPAC #82</td> <td>CI-8 IUPAC #195</td> </tr> <tr> <td>CI-6 IUPAC #151</td> <td>CI-8 IUPAC #194</td> </tr> <tr> <td>CI-6 IUPAC #149</td> <td>CI-8 IUPAC #205</td> </tr> <tr> <td>CI-5 IUPAC #118</td> <td>CI-9 IUPAC #206</td> </tr> <tr> <td>CI-6 IUPAC #153</td> <td>CI-10 IUPAC #209</td> </tr> <tr> <td>CI-6 IUPAC #132</td> <td>PCB congener summation (targeted and non-targeted)</td> </tr> <tr> <td>CI-5 IUPAC #105</td> <td></td> </tr> </table> | CI-3 IUPAC #17+18 | CI-6 IUPAC #158+138 | CI-3 IUPAC #28+31 | CI-7 IUPAC #187 | CI-3 IUPAC #33 | CI-7 IUPAC #183 | CI-4 IUPAC #52 | CI-6 IUPAC #128 | CI-4 IUPAC #49 | CI-7 IUPAC #177 | CI-4 IUPAC #44 | CI-7 IUPAC #171 | CI-4 IUPAC #74 | CI-6 IUPAC #156 | CI-4 IUPAC #70 | CI-7 IUPAC #180 | CI-5 IUPAC #95 | CI-7 IUPAC #191 | CI-5 IUPAC #101 | CI-6 IUPAC #169 | CI-5 IUPAC #99 | CI-7 IUPAC #170 | CI-5 IUPAC #87 | CI-8 IUPAC #199 | CI-5 IUPAC #110 | CI-9 IUPAC #208 | CI-5 IUPAC #82 | CI-8 IUPAC #195 | CI-6 IUPAC #151 | CI-8 IUPAC #194 | CI-6 IUPAC #149 | CI-8 IUPAC #205 | CI-5 IUPAC #118 | CI-9 IUPAC #206 | CI-6 IUPAC #153 | CI-10 IUPAC #209 | CI-6 IUPAC #132 | PCB congener summation (targeted and non-targeted) | CI-5 IUPAC #105 | |
| CI-3 IUPAC #17+18 | CI-6 IUPAC #158+138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-3 IUPAC #28+31 | CI-7 IUPAC #187 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-3 IUPAC #33 | CI-7 IUPAC #183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC #52 | CI-6 IUPAC #128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC #49 | CI-7 IUPAC #177 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC #44 | CI-7 IUPAC #171 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC #74 | CI-6 IUPAC #156 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-4 IUPAC #70 | CI-7 IUPAC #180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #95 | CI-7 IUPAC #191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #101 | CI-6 IUPAC #169 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #99 | CI-7 IUPAC #170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #87 | CI-8 IUPAC #199 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #110 | CI-9 IUPAC #208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #82 | CI-8 IUPAC #195 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-6 IUPAC #151 | CI-8 IUPAC #194 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-6 IUPAC #149 | CI-8 IUPAC #205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #118 | CI-9 IUPAC #206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-6 IUPAC #153 | CI-10 IUPAC #209 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-6 IUPAC #132 | PCB congener summation (targeted and non-targeted) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CI-5 IUPAC #105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ORG-100-5108F</p> | <p>Determination of Aroclor in water, soil/mud/sediment, oil, solvent and leachate by GC/ECD.</p> <p>(Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of polychlorinated biphenyls: determination by gas chromatography coupled with a mass Spectrometer or an electron capture detector – method by congener and homologous group, MA.400 – BPC 1.0, rev.5, Ministry of Sustainable Development, Environment and Quebec's fight against climate change, 2014, 35 p).</p> <p>Applicable matrices: Water, soil/mud/sediment, oil, solvent, leachate Device: GC/ECD</p> <p>Compounds: Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <p>ORG-100-5109F</p> | <p>Determination of chlorobenzenes in water and soil by GC/MS (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of chlorobenzenes: determination by gas chromatography coupled with a mass spectrometer, MA. 400 – Clbz 1.0, Rev. 4, Ministry of Sustainable Development, Environment, Wildlife and Parks of Quebec, 2013, 20 p). Applicable matrices: Water, soil Device: GC/MS</p> <p>Compounds: Hexachlorobenzene Pentachlorobenzene Tetrachloro-1,2,3,4 benzene Tetrachloro-1,2,3,5 benzene Tetrachloro-1,2,4,5 benzene Trichloro-1,2,3 benzene Trichloro-1,2,4 benzene Trichloro-1,3,5 benzene</p> |
| <p>ORG-100-5112F</p> | <p>Determination of fatty and resin acids in soil and water by GC/MS (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of fatty and resin acids: determination by gas phase chromatography coupled with a mass Spectrometer after derivation at the BSTFA, MA 414 – Aci-g-r- 1.0, Rev. 3, Ministry of Sustainable Development, Environment, Wildlife and Parks of Quebec, 2013, 18 p). Applicable matrices: Water, soil Device: GC/MS</p> <p>Compounds: Linoleic acid Linolenic acid oleic acid 9,10-dichlorostearic acid Stearic acid pimaric acid Sandaracopimaric acid Isopimaric acid palustric acid Levopimaric acid Dehydroabietic acid Abietic acid Neoabietic acid 14-chlorodehydroabietic acid 12-chlorodehydroabietic acid 12,14-dichlorodehydroabietic acid</p> |

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| <p>ORG-100-5113F</p> | <p>Determination of phenolic compounds in water and leachate by GC/MS by acetic anhydride derivatization. (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC. Determination of phenolic compounds: determination by gas phase chromatography coupled with a mass Spectrometer after derivation with acetic anhydride MA.400 – Phé 1.0, Rev. 3, Quebec Ministry of Sustainable Development, Environment, Wildlife and Parks, 2013, 20 p). Applicable matrices : Water, leachate Device: GC/MS</p> <p>Compounds:</p> <table border="0"> <tr> <td>Phenol</td> <td>Eugenol</td> </tr> <tr> <td>ortho-Cresol</td> <td>4-chlorocatechol</td> </tr> <tr> <td>m-Cresol</td> <td>4,6-dichloroguaiacol</td> </tr> <tr> <td>para-Cresol</td> <td>2,3,4-trichlorophenol</td> </tr> <tr> <td>2-chlorophenol</td> <td>3,4,5-trichlorophenol</td> </tr> <tr> <td>3-chlorophenol</td> <td>4,5-dichloroguaiacol</td> </tr> <tr> <td>4-chlorophenol</td> <td>Iso-eugenol</td> </tr> <tr> <td>2,4-dimethylphenol</td> <td>2,3,5,6-tetrachlorophenol</td> </tr> <tr> <td>Guaiacol</td> <td>3,5-dichlorocatechol</td> </tr> <tr> <td>2,6-dichlorophenol</td> <td>2,3,4,6-tetrachlorophenol</td> </tr> <tr> <td>2,4 + 2,5-dichlorophenol</td> <td>3,4,5-trichloroveratrol</td> </tr> <tr> <td>3,5-dichlorophenol</td> <td>6-chlorovanillin</td> </tr> <tr> <td>Catechol</td> <td>2,3,4,5-tetrachlorophenol</td> </tr> <tr> <td>2,3-dichlorophenol</td> <td>4,5-dichlorocatechol</td> </tr> <tr> <td>2-nitrophenol</td> <td>3,4,5-trichloroguaiacol</td> </tr> <tr> <td>3,4-dichlorophenol</td> <td>Tetrachloroveratrol</td> </tr> <tr> <td>4-chloroguaiacol</td> <td>4,5,6-trichloroguaiacol</td> </tr> <tr> <td>2,4,6-trichlorophenol</td> <td>5,6-dichlorovanillin</td> </tr> <tr> <td>4-nitrophenol</td> <td>Pentachlorophenol</td> </tr> <tr> <td>2,3,6-trichlorophenol</td> <td>3,4,5-trichlorocatechol</td> </tr> <tr> <td>2,3,5-trichlorophenol</td> <td>Tetrachloroguaiacol</td> </tr> <tr> <td>2,4,5-trichlorophenol</td> <td>3,4,5-trichlorosyringol</td> </tr> <tr> <td>4,5-dichloroveratrol</td> <td>Tetrachlorocatechol</td> </tr> </table> | Phenol | Eugenol | ortho-Cresol | 4-chlorocatechol | m-Cresol | 4,6-dichloroguaiacol | para-Cresol | 2,3,4-trichlorophenol | 2-chlorophenol | 3,4,5-trichlorophenol | 3-chlorophenol | 4,5-dichloroguaiacol | 4-chlorophenol | Iso-eugenol | 2,4-dimethylphenol | 2,3,5,6-tetrachlorophenol | Guaiacol | 3,5-dichlorocatechol | 2,6-dichlorophenol | 2,3,4,6-tetrachlorophenol | 2,4 + 2,5-dichlorophenol | 3,4,5-trichloroveratrol | 3,5-dichlorophenol | 6-chlorovanillin | Catechol | 2,3,4,5-tetrachlorophenol | 2,3-dichlorophenol | 4,5-dichlorocatechol | 2-nitrophenol | 3,4,5-trichloroguaiacol | 3,4-dichlorophenol | Tetrachloroveratrol | 4-chloroguaiacol | 4,5,6-trichloroguaiacol | 2,4,6-trichlorophenol | 5,6-dichlorovanillin | 4-nitrophenol | Pentachlorophenol | 2,3,6-trichlorophenol | 3,4,5-trichlorocatechol | 2,3,5-trichlorophenol | Tetrachloroguaiacol | 2,4,5-trichlorophenol | 3,4,5-trichlorosyringol | 4,5-dichloroveratrol | Tetrachlorocatechol |
| Phenol | Eugenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ortho-Cresol | 4-chlorocatechol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| m-Cresol | 4,6-dichloroguaiacol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para-Cresol | 2,3,4-trichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-chlorophenol | 3,4,5-trichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-chlorophenol | 4,5-dichloroguaiacol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-chlorophenol | Iso-eugenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-dimethylphenol | 2,3,5,6-tetrachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guaiacol | 3,5-dichlorocatechol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,6-dichlorophenol | 2,3,4,6-tetrachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4 + 2,5-dichlorophenol | 3,4,5-trichloroveratrol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,5-dichlorophenol | 6-chlorovanillin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Catechol | 2,3,4,5-tetrachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3-dichlorophenol | 4,5-dichlorocatechol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-nitrophenol | 3,4,5-trichloroguaiacol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,4-dichlorophenol | Tetrachloroveratrol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-chloroguaiacol | 4,5,6-trichloroguaiacol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,6-trichlorophenol | 5,6-dichlorovanillin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-nitrophenol | Pentachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3,6-trichlorophenol | 3,4,5-trichlorocatechol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,3,5-trichlorophenol | Tetrachloroguaiacol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,5-trichlorophenol | 3,4,5-trichlorosyringol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,5-dichloroveratrol | Tetrachlorocatechol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ORG-100-5115F</p> | <p>Determination of glyphosate and AMPA in water by HPLC/FLD. (Reference method: CENTRE D'EXPERTISE EN ANALYSE ENVIRONNEMENTALE DU QUÉBEC, Determination of glyphosate and AMPA in water: determination by chromatography in liquid phase, post-column derivation and fluorescence detection MA. 403 - GlyAmp 1.0, Rev. 4, Ministry of Sustainable Development, Environment and Parks of Quebec, 2011, 12 p). Applicable matrix: Water Device: HPLC-FLD detector</p> <p>Compounds: Glyphosate, AMPA</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|----------------|--|-----|------|-----|----------|-----------|---------|--------|------|---------|------|----|-----|----------|------|---------|---------|
| ORG-100-5125F | <p>Determination of haloacetic acids in water by GC/MS (Reference method: Determination of haloacetic acids and Dalapon in Drinking Water by Liquid-Liquid microextraction, derivatization and gaz chromatography with electron capture; US-EPA Method 552.3-1). Applicable matrix: Water Device: GC/MS</p> <p>Compounds: Chloroacetic acid Dichloroacetic acid Trichloroacetic acid Bromoacetic acid Dibromoacetic acid</p> | | | | | | | | | | | | | | | | |
| ORG-100-5126F | <p>Determination of aldehydes in water and soil by GC/MS (Reference method: Disinfection by-by-products: Aldehydes, PFBHA Liquid-Liquid Extraction Gas Chromatographic Method, 6252 B., Standard Methods for the Examination of Water and Wastewater, 21st Edition, 2005, pp. 6-58). Applicable matrices: Water, soil Device: GC/MS</p> <p>Compounds: Formaldehyde</p> | | | | | | | | | | | | | | | | |
| TOX-151-19000F | <p>Determination of perchlorate Applicable matrices: Water, soil Device/Technique: UPLC-MS (Ultra-performance Liquid Chromatography/Mass spectrometer)</p> | | | | | | | | | | | | | | | | |
| TOX-151-19002F | <p>Determination of nitroaromatics, nitramines and nitrate esters (Reference method: Determination of nitroaromatics, nitramines and nitrate esters by UPLC-MS/MS: US-EPA 8330B) Applicable matrices: Water, soil and sediment Device/Technique: UPLC- MSMS / UV Ultra-performance Liquid Chromatography-tandem Mass Spectrometry/UV)</p> <p>Compounds:</p> <table data-bbox="422 1323 1071 1575"> <tr> <td>HMX</td> <td>2-NT</td> </tr> <tr> <td>RDX</td> <td>2-Am-DNT</td> </tr> <tr> <td>1,3,5-TNB</td> <td>2,6-DNT</td> </tr> <tr> <td>Tetryl</td> <td>3-NT</td> </tr> <tr> <td>1,3-DNB</td> <td>4-NT</td> </tr> <tr> <td>NB</td> <td>TNG</td> </tr> <tr> <td>4-Am-DNT</td> <td>PETN</td> </tr> <tr> <td>2,4-DNT</td> <td>3,5-DNA</td> </tr> </table> | HMX | 2-NT | RDX | 2-Am-DNT | 1,3,5-TNB | 2,6-DNT | Tetryl | 3-NT | 1,3-DNB | 4-NT | NB | TNG | 4-Am-DNT | PETN | 2,4-DNT | 3,5-DNA |
| HMX | 2-NT | | | | | | | | | | | | | | | | |
| RDX | 2-Am-DNT | | | | | | | | | | | | | | | | |
| 1,3,5-TNB | 2,6-DNT | | | | | | | | | | | | | | | | |
| Tetryl | 3-NT | | | | | | | | | | | | | | | | |
| 1,3-DNB | 4-NT | | | | | | | | | | | | | | | | |
| NB | TNG | | | | | | | | | | | | | | | | |
| 4-Am-DNT | PETN | | | | | | | | | | | | | | | | |
| 2,4-DNT | 3,5-DNA | | | | | | | | | | | | | | | | |

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| TOX-151-19003F | <p>Determination of nonylphenols and nonylphenols polyethoxylates (Reference method: ASTM D7485, ASTM D7742) Applicable matrix: Water Device/Technique: UPLC-MS</p> <p>Compounds: p-n-Nonylphenol Nonylphenol technical grade Bisphenol A (BPA) Nonylphenol monoethoxylate (NP₁EO) Nonylphenol diethoxylate (NP₂EO) Nonylphenol triethoxylate (NP₃EO) Nonylphenol tetraethoxylate (NP₄EO) Nonylphenol pentaethoxylate (NP₅EO) Nonylphenol hexaethoxylate (NP₆EO) Nonylphenol heptaethoxylate (NP₇EO) Nonylphenol octaethoxylate (NP₈EO) Nonylphenol nonaethoxylate (NP₉EO) Nonylphenol decaethoxylate (NP₁₀EO) Nonylphenol undecaethoxylate (NP₁₁EO) Nonylphenol dodecaethoxylate (NP₁₂EO) Nonylphenol tridecaethoxylate (NP₁₃EO) Nonylphenol tetradecaethoxylate (NP₁₄EO) Nonylphenol pentadecaethoxylate (NP₁₅EO) Nonylphenol hexadecaethoxylate (NP₁₆EO) Nonylphenol heptadecaethoxylate (NP₁₇EO)</p> |
| TOX-151-19005F | <p>Determination of polycyclic aromatic hydrocarbons (PAH) Applicable matrix: Air Device/Technique: GC/MS</p> |

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| <p>TOX-151-19012F</p> | <p>Determination of perfluorinated alkyl substances (PFAS) in water and soil by SPE-LC-MS/MS (Reference methods: US-EPA 533, EPA1633) Applicable matrices: Water, soil Device/Technique: SPE-LC-MS/MS</p> <p>Compounds:</p> <ul style="list-style-type: none"> Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnA) Perfluorododecanoic acid (PFDoA) Perfluorotridecanoic acid (PFTTrDA) Perfluorotetradecanoic acid (PFTeDA) Perfluorobutanesulfonic acid (PFBS) Perfluorohexasulfonic acid (PFHxS) Perfluoroheptanesulfonic acid (PFHpS) Perfluorooctasulfonic acid (PFOS) Perfluorooctane sulfonamide (PFOSA) Perfluorodecanesulfonic acid (PFDS) Perfluoro(2-ethoxyethane) sulfonic acid (PFEEESA) Perfluoro-3-methoxypropanoic acid (PFMPA) Perfluoro-4-methoxybutanoic acid (PFMBA) Perfluorododecanesulfonic acid (PFDoS) Perfluorononanesulfonic acid (PFNS) Perfluoropentanesulfonic acid (PFPeS) 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) 11-Chloro-eicosa-fluoro-3-oxaundecane-1-sulfonate Hexafluoropropylene Oxide dimer Acid (HFPO-DA) 2H-perfluoro-octenoic acid (FHUEA) 3:3 Fluorotelomer carboxylic acid (3:3FTCA) 2H-perfluoro-decenoic acid (FOUEA) 2H-Perfluoro-dodecanoic acid (FDUEA) F-53B Major (9CI-PF3ONS) 4:2 Fluorotelomer Sulfonic Acid (4:2-FTS) 5:3 Fluorotelomer carboxylic acid (5:3FTCA) 6:2 Fluorotelomer Sulfonic Acid (6:2-FTS) 7:3 Fluorotelomer carboxylic acid (7:3FTCA) 8:2 Fluorotelomer Sulfonic Acid (8:2-FTS) |
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| | <p>N-Methyl perfluorooctane sulfonamide (NMeFOSA) N-ethyl perfluorooctane sulfonamide (NEtFOSA) N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA) N-Methylperfluorooctanesulfonamide ethanol NMeFOSE N-ethylperfluorooctane sulfonamide ethanol NEtFOSE N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA) Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)</p> |
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Water (Toxicology)

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| ECO-152-20000F | <p>Acute Rainbow Trout (<i>Oncorhynchus mykiss</i>) EPS Test 1/RM/9 (wide range of substances) ESP1/RM/13 (effluents) and ESP1/RM/50; DGST1/RM/59 (pH stabilization) Applicable matrices: water, effluents, Chemicals Device/Technique: NA</p> <p>Compounds/Parameters: LC50-96h</p> |
| ECO-152-20004F | <p>Determination of acute toxicity in <i>Daphnia magna</i> ESP 1/RM/11, ESP 1/RM/14 and MA. 500 – D.mag 1.1 Applicable matrices: water, chemicals Device/Technique: N/A</p> <p>Compounds/Parameters: LC50-48h</p> |
| ECO-152-20017F | <p>Acute Toxicity Test with Fathead Minnow Larvae (Lethality Test) (Pimephales promelas) US-EPA-821-R-02-012 Applicable matrices: water, chemicals Device/Technique: N/A</p> <p>Compounds/Parameters: LC50-96h</p> |
| ECO-152-20019F | <p>Determination of growth inhibition in the alga <i>Raphidocelis subcapitata</i> (<i>Pseudokirchneriella subcapitata</i>) ESP 1/RM/25 Applicable matrices: water, chemicals Device/Technique: Particle Counter</p> <p>Compounds/Parameters: IC50; IC25-72h (growth)</p> |
| ECO-152-20021F | <p>Determination of growth inhibition in the alga <i>Raphidocelis subcapitata</i> MA. 500-P.sub 1.0 Applicable matrices: water, chemicals Device/Technique: Particle Counter</p> <p>Compounds/Parameters: IC50; IC25-96h (growth)</p> |

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| ECO-152-20022F | <p>Larval fathead minnow growth and survival test (chronic test) (<i>Pimephales promelas</i>) ESP 1/RM/22 Applicable matrices: water, chemicals Device/Technique: Gravimetry</p> <p>Compounds/Parameters: LC50; CI25 (growth)-7 days</p> |
| ECO-152-20023F | <p>Determination of the toxicity of samples using the luminescent bacterium <i>Vibrio fischeri</i> (microtox) based on ESP 1/RM/24 Applicable matrices: water, chemicals Device/Technique: Microtox analyzer</p> <p>Compounds/Parameters: IC50 (bioluminescence)</p> |
| ECO-152-20027F | <p>Survival and reproduction test in <i>Ceriodaphnia dubia</i> (ESP 1/RM/21) Applicable matrices: water, chemicals Device/Technique: N/A</p> <p>Compounds/Parameters: LC50; CI25 (breeding) 5 to 8 days</p> |
| ECO-152-20029F | <p>Measurement of growth inhibition of the freshwater macrophyte <i>Lemna minor</i> (ESP1/RM/37) Applicable matrices: water, chemicals Device/Technique: Gravimetry</p> <p>Compounds/Parameters: IC25-7d (growth: number of fronds, dry weight)</p> |

Number of Scope Listings: 87

Number of TMDNRT Techniques: 2

Notes:

ASTM: ASTM International, formerly American Society for Testing and Materials

US-EPA: United States Environmental Protection Agency

USDA: United States Department of Agriculture

MFHPB: Method Food Health Protection Branch-HPB Methods for the Microbiological Analysis of Foods, Health Canada

MFLP: Microbiology Food Laboratory Procedure-Laboratory Procedures for the Microbiological Analysis of Foods, Health Canada

MLG: United States Department of Agriculture Food Safety And Inspection Service, Office of Public Health Science

FC: Internal Laboratory Method (Food Chemistry)

HR: Internal Laboratory Method (Environmental)

INOR: Internal Laboratory Method (Inorganic)

ORG: Internal Laboratory Method (Organic)

MET: Internal Laboratory Method (Metals)



TOX: Internal Laboratory Method (Toxicology)

ECO: Internal Laboratory Method (Ecotoxicology)

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Elias Rafoul
Vice-President, Accreditation Services
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