



**Eurofins ELS**

Wellington

**Client Number 1701**

PO Box 36105, Wellington Mail Centre, Lower Hutt, 5045  
85 Port Rd, Seaview, Lower Hutt, 5010

**Telephone 04 576-5016**

**www.eurofins.co.nz**

**Authorised Representative**

Mr Pathik Vyas  
Quality & Compliance Director  
35 O'Rorke Road  
Penrose  
Auckland 1061  
New Zealand

**Programme**

Chemical Testing Laboratory

**Accreditation Number 414**

**Initial Accreditation Date 13 December 1990**

**Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

**Laboratory Services Summary**

**Water/Environmental**

2.41 Waters  
2.58 Environmental Monitoring

**ICP-MS/OES**

2.31 Foods  
2.36 Agricultural Products and Agricultural Materials  
2.41 Waters  
2.50 Gases  
2.58 Environmental Monitoring  
2.61 Biological Specimens  
2.81 Other Specified Inorganic Material

**Organics**

2.31 Foods  
2.36 Agricultural Products and Agricultural Materials  
2.41 Waters  
2.58 Environmental Monitoring

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# CERTIFICATE OF ACCREDITATION



<b>Sampling</b>	
2.41	Waters
2.58	Environmental Monitoring

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**Water/Environmental**

**2.41 Waters**

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes

Absorbance at 254, 270 & 440 nm	In-house
Acidity	2310 B
Alkalinity	2320 B
Alkalinity to pH 4.5	2320 B
Alkalinity to pH 8.3	2320 B
Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> H
Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> H (modified)
Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> H (modified, Discrete analyser)
Ammoniacal nitrogen (ammonium) (acidified)	4500-NH <sub>3</sub> H (modified, Discrete analyser)
Biochemical Oxygen Demand (BOD)	5210 B
Calcium	3500-Ca B
Calcium hardness	3500-Ca B
Chemical Oxygen Demand (COD)	5220 D
Chloride	4500-Cl <sup>-</sup> B
Chlorine	4500-Cl F
Chlorine	4500-Cl G
Chlorine (Free Available Chlorine) (field test)	4500-Cl G
Chlorophyll A	10150 B
Chromium (VI)	In-house based on 3500-Cr B (Discrete analyser)
Colour	2120 C (modified)
Colour @ 270 nm (calculation)	In-house
Conductivity	2510 B
Cyanides – total	4500-CN C & E
Cyanides – weak acid dissociable	4500-CN I & E
Dissolved Oxygen	4500-O G
Free carbon dioxide	4500-CO <sub>2</sub> C
Hydrogen sulphide	4500-S <sup>2-</sup> H
Ion balance	1030 E
Magnesium hardness	3500-Mg B
Nitrogen – Inorganic	By calculation
Nitrogen – Nitrate	By calculation
Nitrogen – Nitrate Nitrite	4500-NO <sub>3</sub> <sup>-</sup> I (FIA)
Nitrogen – Nitrate Nitrite	Discrete analyser
Nitrogen – Nitrite	4500-NO <sub>2</sub> <sup>-</sup> B (automated FIA)
Nitrogen – Nitrite	Discrete analyser
Nitrogen – Organic	By calculation

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Nitrogen – total	4500-NO <sub>3</sub> <sup>-</sup> I
Nitrogen – total	4500-N C
Nitrogen – total	By calculation
Nitrogen – total organic	By calculation
Nitrogen – total oxidised	By calculation
Non-purgeable Organic Carbon – dissolved	5310 B
Non-purgeable Organic Carbon – total	5310 B
Oil and Grease	5520 B (modified)
Oil and Grease	5520 D
pH	4500-H <sup>+</sup> B
pH (field test)	4500-H <sup>+</sup> B
Phosphorus – dissolved reactive	4500-P G
Phosphorus – dissolved reactive	4500-P G (modified, Discrete analyser)
Phosphorus – total	4500-P G
Phosphorus – total	4500-P B
Phosphorus – total	4500-P B (modified, Discrete analyser)
Phosphorus – total dissolved	4500-P B
Phosphorus – total dissolved	4500-P G
Phosphorus – total dissolved	4500-P G (modified, Discrete analyser)
Saturation Index	By calculation (2330 B)
Solids – settleable	2540 F
Solids – total	2540 B
Solids – total dissolved	2540 C
Solids – total suspended	2540 D
Solids – total volatile	2540 G
Solids – volatile suspended	2540 E
Sulphide	4500-S <sup>2-</sup> B
Sulphide	4500-S <sup>2-</sup> C
Sulphide	4500-S <sup>2-</sup> F
Sulphite	4500-SO <sub>3</sub> <sup>2-</sup> B
Temperature	2550 B
Temperature (field test)	2550 B
Total Hardness (calculation)	2340 B
Total Hardness	2340 C
Total Kjeldahl Nitrogen	4500-N <sub>org</sub> C
Total Kjeldahl Nitrogen	By calculation
Total Sediment Concentration	ASTM D3977
Turbidity	2130 B
Turbidity (field test)	2130 B
Turbidity	ISO 7027:1999
Unionised Ammonia	By calculation

The following elements by ion chromatography using 4110 B:

Bromide	Chloride	Fluoride	Nitrate
Nitrite	Phosphate	Sulphate	

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The following elements by ion chromatography using 4110 D:

Bromate                                  Chlorate                                  Chlorite

**(f)                  Swimming pools and spas**

Alkalinity	2320 B
Calcium Hardness	3500-Ca B
Chloride	4500-Cl B
Chlorine	4500-Cl <sub>2</sub> F
Conductivity	2510 B
pH	4500-H <sup>+</sup> B

**(h)                  Boiler waters**

Alkalinity	BS 1427:2009
Chloride	4110 B
pH	4500-H B
Phosphorus (total reactive)	Discrete analyser
Sulphite	4500-SO <sub>3</sub> <sup>2-</sup> B

**2.58                  Environmental Monitoring**

**(c)                  Soils and sludges**

Moisture	2540 B
pH	Eurofins In-house method

**ICP-MS/OES**

**2.31                  Foods**

- (a)                  Cereals and cereal products**
- (b)                  Edible oils, fats and their products**
- (c)                  Nuts, fruits and vegetables and derived products**
- (d)                  Sauces, herbs, spice and condiments**
- (e)                  Sugars and sugar confectionery**
- (f)                  Dairy products**

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- (g) Meat, poultry and derived products**
- (h) Fish and fish products**
- (i) Eggs and egg products**
- (j) Alcoholic beverages**
- (k) Non-alcoholic beverages**

The following analytes in accordance with in-house ICP-MS methods following in-house digestion:

Aluminium	Antimony	Arsenic	Cadmium
Calcium	Chromium	Copper	Iron
Lead	Magnesium	Manganese	Mercury
Nickel	Potassium	Selenium	Silver
Sodium	Thallium	Tin	Zinc

**(f) Dairy products**

**(butter and AMF – analysis of the extracted samples only)**

The following analytes by ICP-MS in accordance with APHA 24<sup>th</sup> Edition 3125 (modified):

Copper	Iron
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**(milk, milk powders, whey products, milk powder concentrates)**

The following analytes by ICP-MS in accordance with BS/EN 15111(modified):

Iodine

**(o) Other specified foods**

**(pet foods)**

The following analyte by ICP-MS in accordance with BS/EN 15111 (modified):

Iodine

**2.36 Agricultural Products and Agricultural Materials**

**(c) Stockfoods and licks**

The performance of the following tests in accordance with in-house ICP-MS and ICP-OES methods following in-house digestion:

Aluminium	Arsenic	Cadmium	Chromium
Lead	Tin	Zinc	

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**2.41 Waters**

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes
- (f) Swimming pools and spas
- (h) Boiler waters

The following metals using inductively coupled argon plasma optical emission spectroscopy (ICP-OES) in-house method based on APHA 3120 B using APHA 3030E (modified) digest:

Aluminium	Arsenic	Boron	Calcium
Chromium	Cobalt	Copper	Iron
Lead	Lithium	Magnesium	Manganese
Molybdenum	Nickel	Phosphorus	Potassium
Silica	Silicon	Sodium	Sulphate (calculation)
Sulphur	Tin	Zinc	

Phosphate (ICP-OES)	By calculation
Potassium Adsorption Ratio (ICP-OES)	By calculation
Sodium Adsorption Ratio (ICP-OES)	By calculation

The following metals using inductively coupled plasma mass spectroscopy (ICP-MS) in-house method based on APHA 3125 B using APHA 3030E (modified) digest:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Caesium	Calcium	Chromium	Cobalt
Copper	Iron	Lead	Lithium
Magnesium	Manganese	Mercury	Molybdenum
Nickel	Potassium	Selenium	Silver
Sodium	Strontium	Thallium	Tin
Titanium	Tungsten	Uranium	Vanadium
Zinc			

Potassium Adsorption Ratio (ICP-MS)	By calculation
Sodium Adsorption Ratio (ICP-MS)	By calculation

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**2.50 Gases**

- (c) **Fumes and emissions**
- (d) **Atmospheric pollution**

Performance of the following tests on filters or extracted filters and impinger solutions as received by the laboratory, in accordance with in-house methods by ICP-MS:

Antimony	Arsenic	Boron	Cadmium
Chromium	Cobalt	Copper	Iron
Lead	Manganese	Mercury	Molybdenum
Nickel	Selenium	Silver	Thallium
Tin	Titanium	Tungsten	Vanadium
Zinc			

**2.58 Environmental Monitoring**

- (b) **Air (filters, extracts or impinger solutions as received)**
- (c) **Soils and sludges**

In accordance with in-house methods by ICP-MS:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Boron	Cadmium	Caesium
Calcium	Chromium	Cobalt	Copper
Iron	Lead	Lithium	Magnesium
Manganese	Mercury	Molybdenum	Nickel
Potassium	Selenium	Silicon	Silver
Sodium	Strontium	Thallium	Tin
Titanium	Tungsten	Uranium	Vanadium
Zinc			

**2.61 Biological Specimens**

- (a) **Biological fluids including urine**

The performance of the following tests on pre-prepared samples as received by the laboratory in accordance with in-house methods by ICP-MS:

Aluminium	Cadmium	Cobalt	Copper
Lead			

- (b) **Residues in specified veterinary specimens**

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The performance of the following tests on pre-prepared canine and equine urine screening and confirmation samples as received by the laboratory in accordance with in-house methods by ICP-MS:

Cobalt

**2.81 Other Specified Inorganic Material**

**(a) Toys and playthings**

Analysis of the following tests in graphic materials, in accordance with in-house ICP-MS and ICP-OES methods and to AS/NZS ISO 8124.3:2003:

Antimony	Arsenic	Barium	Cadmium
Chromium	Lead	Mercury	Selenium

**Organics**

**2.31 Foods**

- (a) Cereals and cereal products
- (b) Edible oils, fats and their products
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (e) Sugars and sugar confectionery
- (f) Dairy products
- (i) Eggs and egg products
- (k) Non-alcoholic beverages

**GC-MS**

Dithiocarbamates and Thiram Disulphide Pesticides as CS2 In-house method

**GC-MS/MS**

Pesticide residues by in-house method based on AOAC 2007.1 for the above sample types.

**LC-MS/MS**

Pesticide residues by in-house method based on AOAC 2007.1 for the above sample types.

**(c) Fruits and derived products**

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**LC-MS/MS**

Paraquat and Diquat	In-house method
Maleic Hydrazide	In-house method
Fosetyl-aluminium and phosphorus acid	In-house method

- (f) **Dairy products**
- (o) **Other specified foods (pet food)**

**LC-MS/MS**

Melamine, dicyandiamide (DCD) and cyanuric acid	In-house method
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**2.36 Agricultural Products and Agricultural Materials**

- (a) **Wheat and other cereal grains and by-products**
- (b) **Oil seeds and by-products**
- (h) **Plants**

**GC-MS/MS**

Pesticide residues by in-house method based on AOAC 2007.1 for the above types.

- (a) **Wheat and other cereal grains and by-products**
- (b) **Oil seeds and by-products**
- (h) **Plants**
- (j) **Residues in agricultural products and related materials**

**LC-MS/MS**

Pesticide residues by in-house method based on AOAC 2007.1 for the above sample types.

- (h) **Plants**

**GC-MS**

Dithiocarbamates and Thiram Disulphide Pesticides as CS2 In-house method

**2.41 Waters**

- (a) **Potable waters**
- (b) **Non-potable waters**
- (c) **Sewage**

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**(d) Effluents and trade wastes**

**GC-FID**

Benzene, toluene, ethylbenzene and total xylenes (BTEX)	In-house method based on USEPA
Total Petroleum Hydrocarbons (TPH)	In-house method based on USEPA
Total Recoverable Petroleum Hydrocarbons (TRH)	In-house method based on USEPA

**GC-MS**

Acrylamide	In-house method based on USEPA 8032A
Dithiocarbamates and Thiram Disulphide Pesticides as CS2	In-house method

Semi-volatile organic compounds (SVOCs) compound classes in accordance with in-house methods based on those of the USEPA:

- Carbamate pesticides
- Organochlorine pesticides (OCs)
- Organonitrogen pesticides (ONs)
- Organophosphorus pesticides (OPs)
- Phenols and their derivatives
- Polychlorinated benzenes
- Polychlorinated biphenyls (PCBs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Synthetic pyrethroids

Pesticide residues of the following compound classes by tandem mass spectrometry (GC-MS/MS) in accordance with in-house methods based on those of the USEPA:

- Carbamate and dithiocarbamate pesticides
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenoxyacetic acid herbicides
- Synthetic pyrethroids

**Static Headspace (SHS) GC-MS**

Volatile organic compounds (VOCs) by Static Headspace (SHS) GC-MS in the following compound classes in accordance with an in-house method:

- Hydrocarbons
- Halogenated hydrocarbons and haloforms
- Aromatics and BTEX
- Halogenated aromatics
- Carbon disulphide

**Solid Phase Microextraction (SPME) GC-MS**

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Taste and Odour Compounds

In-house method based on APHA 6040D

**LC-MS/MS**

2,4-Dichlorophenol

In-house method

2, 4, 6-Trichlorophenol

In-house method

Acid herbicides

In-house method

Bromochloroacetic acid

In-house method

Dibromoacetic acid

In-house method

Dichloroacetic acid

In-house method

Fluoroacetate sodium / 1080

In-house method

Glyphosate, AMPA, Glufosinate

In-house method

Maleic Hydrazide

In-house method

Monobromoacetic acid

In-house method

Monochloroacetic acid

In-house method

Paraquat and Diquat

In-house method

Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

In-house method

Pesticide Residues in water

In-house method based on USEPA

Phenols and Chlorinated Phenols

In-house method

Trichloroacetic acid

In-house method

**(a) Potable waters**

**LC-MS/MS**

2,4-D

In-house method

2,4-Dichlorophenol

In-house method

2, 4, 6-Trichlorophenol

In-house method

Bromochloroacetic acid

In-house method

Dibromoacetic acid

In-house method

Dichloroacetic acid

In-house method

Monobromoacetic acid

In-house method

Monochloroacetic acid

In-house method

Trichloroacetic acid

In-house method

**GC-MS/MS**

Epichlorohydrin in water

In-house method based on the Journal of Chromatography 1201 (2008)

**2.58 Environmental Monitoring**

**(c) Soils and sludges**

**GC-FID**

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Benzene, toluene, ethylbenzene and total xylenes (BTEX)	In-house method based on those of the USEPA
Total Petroleum Hydrocarbons (TPH)	In-house method
Total Recoverable Petroleum Hydrocarbons (TRH)	In-house method

**GC-MS**

Semi-volatile organic compounds (SVOCs) in the following compound classes in accordance with in-house methods based on those of the USEPA:

- Carbamate pesticides
- Organochlorine pesticides (OCs)
- Organonitrogen pesticides (ONs)
- Organophosphorus pesticides (OPs)
- Phenols and their derivatives
- Polychlorinated benzenes
- Polychlorinated biphenyls (PCBs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Synthetic pyrethroids

Pesticide residues of the following compound classes by tandem mass spectroscopy (GC-MS/MS) in accordance with in-house methods based on those of the USEPA:

- Carbamate and dithiocarbamate pesticides
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenoxyacetic acid herbicides
- Synthetic pyrethroids

**Static Headspace (SHS) GC-MS**

Volatile organic compounds (VOCs) in the following compound classes in accordance with an in-house method:

- Hydrocarbons
- Halogenated hydrocarbons and haloforms
- Aromatics and BTEX
- Halogenated aromatics
- Carbon disulphide

**(c) Soils and sludges**

**LC-MS/MS**

Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	In-house method
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**(d) Other materials – environmental wipes**

Analysis for the following compound in gauze swabs by LC-MS/MS in accordance with NIOSH 9111 (modified), in accordance with the requirements of NZS 8510:2017 Testing and decontamination of methamphetamine-contaminated properties:

- Methamphetamine

Analysis for the following compounds in gauze swabs by LC-MS/MS in accordance with NIOSH 9111 (modified):

- Methamphetamine
- Amphetamine
- MDMA (3, 4- methyleneioxymethamphetamine)
- MDA (3, 4- methylenedioxyamphetamine)
- Pseudoephedrine

**Sampling**

**2.41 Waters**

- (a) Potable waters
- (b) Non-potable waters (e.g. receiving waters, ground waters)
- (c) Sewage
- (d) Effluents and trade wastes
- (e) Cooling tower and industrial waters
- (f) Swimming pools and spas
- (g) Marine waters

Sampling in accordance with in-house procedures based on AS/NZS 5667


**2.58 Environmental Monitoring**

- (c) Soils and sludges

Sampling in accordance with in-house procedures based on AS/NZS 5667

**References:**

- AOAC AOAC International
- APHA American Public Health Association
- ASTM American Society for Testing and Materials

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- AS/NZS Australian/New Zealand standards
- BS British Standards
- BS/EN British Standard implementation of English language versions of European standard
- ISO International Organization for Standardization
- USEPA United States Environmental Protection Agency

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