



Eurofins ELS

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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

ICP-MS/OES

2.05 Clays, Ceramics and Related Materials
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

Operations Manager
Authorisation:

Issue 94

Date:26/03/25

Page 1 of 15

CERTIFICATE OF ACCREDITATION



Sampling

2.41

Waters

2.58

Environmental Monitoring

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Issue 94

Date: 26/03/25

Page 2 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

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 ₃ H
Ammoniacal nitrogen (ammonium)	4500-NH ₃ H (modified)
Ammoniacal nitrogen (ammonium)	Discrete analyser
Ammoniacal nitrogen (ammonium) (acidified)	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 ⁻ B
Chlorine	4500-Cl F
Chlorine	4500-Cl G
Chlorine (Free Available Chlorine) (field test)	4500-Cl G
Chlorophyll	10200 H
Chromium (VI)	In-house based on 3500-Cr B
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 ₂ C
Hydrogen sulphide	4500-S ²⁻ H
Ion balance	1030 E
Magnesium hardness	3500-Mg B
Nitrogen – Inorganic	By calculation
Nitrogen – Nitrate	By calculation
Nitrogen – Nitrate Nitrite	4500-NO ₃ ⁻ I (FIA)
Nitrogen – Nitrate Nitrite	Discrete analyser
Nitrogen – Nitrite	4500-NO ₂ ⁻ B (automated FIA)
Nitrogen – Nitrite	Discrete analyser
Nitrogen – Organic	By calculation
Nitrogen – total	4500-NO ₃ ⁻ I

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 3 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

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 ⁺ B
pH (field test)	4500-H ⁺ B
Phosphorus – dissolved reactive	4500-P G
Phosphorus – dissolved reactive	Discrete analyser
Phosphorus – total	4500-P G
Phosphorus – total	4500-P B
Phosphorus – total	Discrete analyser
Phosphorus – total dissolved	4500-P B
Phosphorus – total dissolved	4500-P G
Phosphorus – total dissolved	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 ²⁻ B
Sulphide	4500-S ²⁻ C
Sulphide	4500-S ²⁻ F
Sulphite	4500-SO ₃ ²⁻ B
Temperature	2550 B
Temperature (field test)	2550 B
Total Hardness (calculation)	2340 B
Total Hardness	2340 C
Total Kjeldahl Nitrogen	4500-N _{org} 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	

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 4 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

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 ₂ F
Conductivity	2510 B
pH	4500-H ⁺ B

(h) Boiler waters

Alkalinity	BS 1427:2009
Chloride	4110 B
pH	4500-H B
Phosphorus (total reactive)	Discrete analyser
Sulphite	4500-SO ₃ ²⁻ B

ICP-MS/OES

2.05 Clays, Ceramics and Related Materials

(a) Clays, ceramics and refractories

The performance of the following tests on leaching from ceramics and glazes, and on leachates as received by in-house ICP-MS and ICP-OES methods:

Antimony Arsenic Cadmium Lead

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**

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 5 of 15



Eurofins ELS

Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 414

- (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-OES methods following in-house digestion:

Aluminium	Chromium	Tin	Zinc
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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 24th 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**

Operations Manager
Authorisation:

Issue 94

Date:26/03/25

Page 6 of 15



Eurofins ELS

Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 414

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

Aluminium
LeadArsenic
TinCadmium
Zinc

Chromium

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
Beryllium
Chromium
Gold
Magnesium
Nickel
Potassium
SilverAntimony
Boron
Cobalt
Iron
Manganese
Palladium
Selenium
SodiumArsenic
Caesium
Copper
Lead
Mercury
Platinum
Silica
StrontiumBarium
Calcium
Gallium
Lithium
Molybdenum
Phosphorus
Silicon
Sulphate
(calculation)
Titanium
ZincSulphur
TungstenThallium
UraniumTin
Vanadium

Phosphate (ICP-OES)

Potassium Adsorption Ratio (ICP-OES)

Sodium Adsorption Ratio (ICP-OES)

By calculation

By calculation

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
Beryllium
Caesium
Copper
Lead
Mercury
PlatinumAntimony
Bismuth
Calcium
Gallium
Lithium
Molybdenum
PotassiumArsenic
Boron
Chromium
Gold
Magnesium
Nickel
SeleniumBarium
Cadmium
Cobalt
Iron
Manganese
Palladium
SilverOperations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 7 of 15



Eurofins ELS

Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 414

Silicon

Sodium

Strontium

Thallium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Potassium Adsorption Ratio (ICP-MS)

By calculation

Sodium Adsorption Ratio (ICP-MS)

By calculation

Reactive Silica

APHA 3120 B

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 and ICP-OES:

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 and ICP-OES:

Aluminium

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Caesium

Calcium

Chromium

Cobalt

Copper

Gallium

Gold

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Palladium

Platinum

Potassium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 8 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

(b) Air (filters, extracts or impinger solutions as received)

Reactive Silica

APHA 3120 B

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
Lead
Zinc

Cadmium
Mercury

Cobalt
Nickel

Copper
Thallium

(b) Residues in specified veterinary specimens

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
Chromium

Arsenic
Lead

Barium
Mercury

Cadmium
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**

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 9 of 15



Eurofins ELS

Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 414

- (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**

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

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**

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 10 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

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
- (d) Effluents and trade wastes

GC-FID

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

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

Operations Manager Authorisation:		Issue 94	Date:26/03/25	Page 11 of 15
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Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

- 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

Taste and Odour Compounds

In-house method based on APHA 6040D

LC-MS/MS

Pesticide Residues in water
Acid Herbicides

In-house method based on USEPA
In-house method

Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
2,4-Dichlorophenol
Fluoroacetate sodium / 1080
Glyphosate, AMPA, Glufosinate
Maleic Hydrazide
Monobromoacetic acid
Monochloroacetic acid
Paraquat and Diquat
Phenols and Chlorinated Phenols
Trichloroacetic acid
2, 4, 6-Trichlorophenol
Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method
In-house method

- (a) Potable waters
(b) Non-potable waters

LC-MS/MS

Pesticide Residues in water

In-house method based on USEPA 3510C,
3500, 5000, 8000D

Operations Manager
Authorisation:

Issue 94

Date:26/03/25

Page 12 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

Acid Herbicides In-house method

Fluoroacetate sodium / 1080 In-house method

Glyphosate, AMPA, Glufosinate In-house method

Maleic Hydrazide In-house method

Paraquat and Diquat In-house method

Phenols and Chlorinated Phenols In-house Method

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) In-house Method

(a) Potable waters

LC-MS/MS

Bromochloroacetic acid In-house method

Dibromoacetic acid In-house method

Dichloroacetic acid In-house method

2,4-D In-house method

2,4-Dichlorophenol In-house method

Monobromoacetic acid In-house method

Monochloroacetic acid In-house method

Trichloroacetic acid In-house method

2, 4, 6-Trichlorophenol 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

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)

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 13 of 15



Eurofins ELS

Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 414

- 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

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

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 14 of 15



Eurofins ELS
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 414

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
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

Operations Manager
Authorisation:

Issue 94

Date: 26/03/25

Page 15 of 15