

Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

AsureQuality Limited
Laboratory Services - Wellington Laboratory

Client No: 6881

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www.asurequality.com

Authorised Representative:
Mrs Charlene Gerber
Quality Systems Manager

Programme
Chemical Testing Laboratory

Accreditation Number: 131

Date of Accreditation: 8 February 1980

Conformance Standard

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

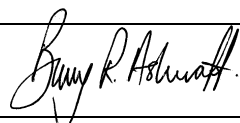
Testing Services Summary

2.31	Foods
2.36	Agricultural Products and Agricultural Materials
2.41	Waters
2.50	Gases
2.58	Environmental Monitoring
2.61	Biological Specimens
2.70	Instrumental Techniques

Key Technical Personnel

Mr Bryan Scahill	2.31(g)(n), 2.41, 2.61; selected tests, 2.70(c)(e)
Mrs Heather Innes	2.31(g)(n), 2.61; selected tests
Mrs Sheryl Beaumont	2.31(n), 2.36; selected tests
Ms Chantelle Brennan	2.31(n), 2.36; selected tests
Ms Kristina Pham	2.31(n), 2.36; selected tests
Miss Joanna Salter	2.31(n), 2.36; selected tests
Mr Darroch Ward	2.31(n), 2.36; selected tests
Dr Alan Stanley	2.31(n), 2.36, 2.41; selected tests,
Dr Andrew Steedman	2.31(n), 2.36, 2.41, 2.50, 2.58, HRMS only
Mr Philip Bridgen	2.31(n), 2.36, 2.41, 2.50, 2.58; HRMS only, 2.70(b)
Dr Cliff Randall	2.31(n), 2.36, 2.41, 2.50, 2.58; selected tests HRMS, 2.70(b)(c)
Mr Koos Hoogenboom	2.31(n), 2.36, 2.41; selected tests, 2.70(a)(c)(d)

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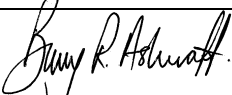
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Mr Eric Cairns	2.31(n), 2.41, 2.61; selected tests, 2.70(a)(c)(d)(e)
Mr Ross Pearson	2.31(n), 2.41, 2.61; selected tests, 2.70(d)(f)
Mrs Eileen Quérée	2.31(n), 2.61; selected tests
Dr Glen Fern	2.31(n), 2.36; selected tests, 2.70(a)(c)(d)(f)
Mrs Lorna Graham	2.41; selected tests
Mrs Joanne Fry	2.41, 2.58; selected tests
Mrs Andrea Lister	2.41, 2.58; selected tests
Mrs Jayanthi Ranasinghe	2.41, 2.58, selected tests
Mr Paul Wilson	2.58; selected tests
Mrs Sanja Sretenovic	2.61(b); selected tests
Mr David Stirling	2.70(f)

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The following tests are in accordance with in-house methods, details of which are available on request.

2.31 Foods

(g) Meat, poultry and derived products

ELISA

Species verification of raw meat

(n) Residues in foodstuffs

Low Resolution GC-MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

1,4 Dichlorobenzene in honey

Chloropropanols in soy sauce / hydrolysed vegetable protein

Dexamethasone

Dithiocarbamates in apples


Non-steroidal anti-inflammatory drugs in milk, milk powders and other similar matrices

High Resolution GC-MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls

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- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans
 Polybrominated diphenyl ethers

LC-MS/MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

Anthelmintics in milk, milk powder and other similar matrices, salmon

Beta agonists in infant formula, liver

Beta-lactam antibiotics in dairy products / salmon muscle

Chloramphenicol/Amphenicols in milk powder, infant formulae and similar foods

Cyanuric Acid and Melamine in milk and milk powder products including high protein dairy foods, fish

Fumagillin in honey

Nicarbazin and Amprolium in eggs

Nitrofurantol metabolites

Nitroimidazole in porcine muscle, eggs, fish (including salmon, crustaceans, shellfish), meat and poultry tissue

Patulin in fruit juice and fruit pulp

Phenolics in meat (muscle)

Polyether coccidiostats in eggs, milk and milk powder including:

- Salinomycin
- Lasalocid
- Maduramicin
- Narasin
- Monensin
- Sempduramicin

Quinolones/Fluoroquinolones in salmon muscle, infant formula

Steroids in fin fish, abalone, crustaceans

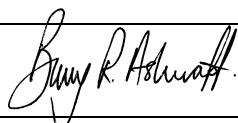
Tutin in honey

Virginiamycin in liver

HPLC

Beta-lactam antibiotics

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Macrocyclic lactones in milk / milk powders / fish (including salmon, crustaceans excluding shellfish)
 Multi-residue analysis of acid herbicides in squash and tomato paste
 Oxytetracycline
 Sudan dyes and Para Red in foods
 Trimethoprim and Basic Anthelmintics in milk

TLC

Sulphonamide antibiotics in milk, milk powder / honey / liver / salmon muscle

ELISA

Chloramphenicol in dairy products / honey / salmon muscle / meats
 Tylosin in seafood tissue

In dairy products only:

- Clenbuterol
- Neomycin
- Streptomycin

Plate Bioassay

Antibiotic screen in readily soluble milk powders / infant formulae / milks / butter / honey / kidney / salmon muscle

2.36 Agricultural Products and Agricultural Materials

(j) Residues in agricultural products and related materials

Low Resolution GC-MS

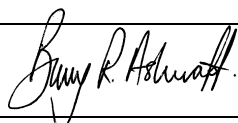
Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

High Resolution GC-MS

N-nitrosamines

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Polybrominated diphenyl ethers
 Polychlorinated biphenyls
 Polychlorinated dibenzofurans
 Polychlorinated dibenzo-p-dioxins
 Polychlorinated phenols and their derivatives

LC-MS/MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

2.41 Waters

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

Low Resolution GC-MS

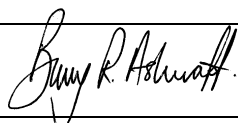
Volatile organic compounds (VOC's) in the following compound classes:

- Benzene
- Ethylbenzene and xylene (BTEX)
- Haloforms
- Halogenated hydrocarbons
- Toluene

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides

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- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

Acid and neutral disinfectant by-products

Acrylamide

Ethylenediamine tetra-acetic acid and nitrilo-acetic acid

Oestrogenic and androgenic compounds in sewage / effluent / treated waters

Sodium monofluoroacetate (1080)

Taste and odour compounds

High Resolution GC-MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivative
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

MX (3-chloro-4-(dichloromethyl)-5- hydroxyl-2(5H)-furanone)

Polybrominated diphenyl ethers

Polychlorinated dibenzofurans

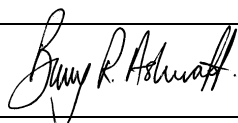
Polychlorinated dibenzo-p-dioxins

LC-MS/MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

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HPLC

Chlortoluron
 Diquat
 Diuron
 Thiabendazole

2.50 Gases

(c) Fumes and emissions
 (d) Atmospheric pollution

Low Resolution GC-MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

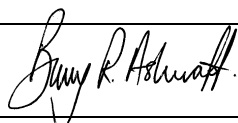
High Resolution GC-MS

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

Polychlorinated dibenzofurans
 Polychlorinated dibenzo-p-dioxins

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2.58 Environmental Monitoring

- (a) **Waters**
- (b) **Air**
- (c) **Soils and sludges**
- (d) **Other materials (including vegetation and biological materials)**

Low Resolution GC-MS (a)(c)(d)

Volatile organic compounds (VOC's) in the following compound classes:

- BETX
- Haloforms
- Halogenated hydrocarbons

Volatile organic compounds in air from tubes and badge samplers based on NIOSH method 1500 "Manual of Analytical Methods" 1994

Semi-volatile organic compounds (SVOC's) in the following compound classes:

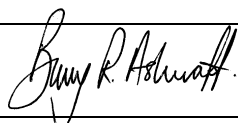
- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

High Resolution GS-MS (a)(b)(c)(d)

Semi-volatile organic compounds (SVOC's) in the following compound classes:

- Carbamate and dithiocarbamate pesticides
- N-nitrosamines
- Organochlorine pesticides
- Organonitrogen pesticides
- Organophosphorus pesticides
- Phenols and their derivatives
- Phenoxyacetic acid herbicides
- Polychlorinated benzenes
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons
- Synthetic pyrethroids

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Polybrominated diphenyl ethers
 Polychlorinated dibenzofurans
 Polychlorinated dibenzo-p-dioxins

GC-FID (a)(c)(d)

Total petroleum hydrocarbons (TPH)

2.61 Biological Specimens

(b) Residues in specified veterinary specimens - biological tissues such as kidney, liver, muscle and fat tissue, urine, blood serum and plasma

Low Resolution GC-MS

Anabolic steroids and compounds
 Carbadox
 Dexamethasone
 Nitroimidazoles
 Pesticides in animal fat (by GC)
 Phenylbutazone in urine
 Sodium monofluoroacetate (1080)

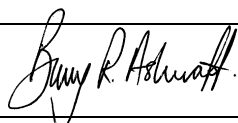
LC-MS/MS

Anthelmintics in liver tissue, salmon tissue
 Beta-agonists in liver
 Carbadox and Olaquinox metabolites in liver
 Leucomalachite green
 Malachite green
 Nitrofurans metabolites (including retina)
 Nitroimidazoles in porcine muscle and salmon tissue
 Phenicols
 Polyether coccidiostats including:

- Salinomycin
- Lasalocid
- Maduramicin
- Narasin
- Monensin
- Amprolium
- Nicarbazin
- Sempduramicin

 Spinosad in rendered fat
 Steroids in urine / salmon muscle
 Thyreostats in urine
 Virginiamycin in liver

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HPLC

Anticoagulants in liver
 Beta-lactam antibiotics
 Macrocyclic lactones in rendered fat / liver / salmon muscle
 Salicylanilides in liver
 Sulphonamides in liver
 Tetracyclines

TLC

Sulphonamide antibiotics in blood / plasma / urine / salmon muscle

Plate Bioassay

Antibiotics (including salmon muscle)

ELISA

Chloramphenicol in salmon muscle
 Clenbuterol
 Neomycin
 Streptomycin
 Tylosin in seafood tissue

2.70 Instrumental Techniques

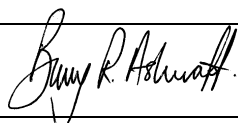
- (a) Gas Chromatography (GC)
- (b) High Resolution Gas Chromatography-Mass Spectrometry (HR GC-MS)
- (c) Gas Chromatography including the use of MS (GC-MSD)
- (d) High Performance Liquid Chromatography (HPLC)
- (e) Enzyme Linked Immunosorbent Assay (ELISA)
- (f) Liquid Chromatography-Mass Spectrometry (LC-MS/MS)

All techniques pertain to classes of test 2.31, 2.36, 2.41, 2.58 and 2.61 as detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ logo. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

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