Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

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New Zealand Institute for Public Health and Forensic Science Ltd **Client Number 195**
Christchurch Science Centre

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Programme
Chemical Testing Laboratory

Accreditation Number 256 **Initial Accreditation Date** 22 January 1985

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Food and Water Chemistry

2.31	Foods
2.41	Waters
2.70	Instrumental Techniques

National Centre for Radiation Science

2.31	Foods
2.41	Waters
2.58	Environmental Monitoring

IANZ; Building 7, Central Park, 660-670 Great South Road, Ellerslie, Auckland 1051
Private Bag 28908, Remuera, Auckland 1541
Tel 09-525 6655 info@ianz.govt.nz ***ianz.govt.nz***

New Zealand Institute for Public Health and Forensic Science Ltd
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 256

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Food and Water Chemistry

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
(g) Meat, poultry and derived products
(h) Fish and fish products
(i) Eggs and egg products
(j) Alcoholic beverages
(k) Non-alcoholic beverages
(l) Food additives and supplements
(m) Essential nutrients, including vitamins
(n) Residues in foodstuffs
(o) Other specified foods

The following tests in accordance with AOAC International: Standard Methods of Analysis of the Association of Official Analytical Chemists (19th Edition), except where otherwise indicated.

Aflatoxin detection in nuts	J Chrom. 624 (1992) 341-352 (modified) LC-MS
Histamine in fish	HPLC by J Chrom. 389 (1987) 267 (modified)
4-ethylguaiacol in wine	J Chrom. A, 786 (1997) 293-298 (modified)
4-ethylphenol in wine	J Chrom. A, 786 (1997) 293-298 (modified)

2.41 Waters

(a) Potable waters

Performance checks of portable Free Available Chlorine (FAC) meters, in accordance with APHA 4500-Cl F and in-house procedures.

(d) Effluents and trade wastes

Fluorescent whiteners	Chemistry in New Zealand (Oct 2006) M.Devan et al. Environ.Sci.Technology 30(1996)2220-2226

2.70 Instrumental Techniques

(a2) Gas Chromatography/Mass Spectrometry (GC-MS)
(a3) Gas Chromatography/Mass Spectrometry (GC-MS/MS)
(b) High Performance Liquid chromatography (HPLC)

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(d2) Liquid Chromatography/Mass Spectrometry (LC-MS/MS)

All techniques pertain to class of test 2.31 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 symbol. 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.

National Centre for Radiation Science

This accreditation replaces previously held accreditations by this laboratory in the following IANZ Laboratory Accreditation Programmes.

IANZ Laboratory Accreditation Programme	Accreditation Number	Date of Initial Accreditation
Chemical Testing Laboratory	848	2/04/2003

2.31 Foods

(n) Residues in foodstuffs

Radiochemical assay for gamma nuclides (including but not limited to I-131, Cs-134, Cs-137) in foodstuffs by gamma spectrometry

Americium-241	in milk powder	In-house based on Anal. Chim. Acta, 281 (1993) 361-372
Americium-241	in milk powder	In-house based on Anal. Chem, 55 (1983) 2460-2461
Plutonium-238	in milk powder	In-house based on Anal. Chim. Acta, 281 (1993) 361-372
Plutonium-238	in milk powder	In-house based on Anal. Chem, 55 (1983) 2460-2461
Plutonium-239	in milk powder	In-house based on Anal. Chim. Acta, 281 (1993) 361-372
Plutonium-239	in milk powder	In-house based on Anal. Chem, 55 (1983) 2460-2461
Strontium-90	in milk powder	In-house based on Eichrom Technologies method SRW01 Rev 1.4

2.41 Waters

(a) Potable waters

Strontium-90
Eichrom Technologies method SRW01 Rev 1.4

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Tritium
In-house

Uranium
Pilviö, R. and Bickel, M. Separation of actinides from a bone ash matrix with extraction chromatography J.Alloys Comp. 271-273 (1998) 49-53

Radium-226
Parsa, B. et al. Concurrent determination of 224-Ra, 226-Ra, 228-Ra, and unsupported 212-Pb in a single analysis for drinking water and wastewater: dissolved and suspended fractions. Health Physics 86, 145-149

Radium-228
Parsa, B. et al. Concurrent determination of 224-Ra, 226-Ra, 228-Ra, and unsupported 212-Pb in a single analysis for drinking water and wastewater: dissolved and suspended fractions. Health Physics 86, 145-149

(a) Potable waters
(b) Non-potable waters (including rain water)

Radiochemical assay for the following nuclides in accordance with the methods indicated:

Radon-222 by liquid scintillation counting
Health Phys, 33 (1997) 577-581

Total alpha and total beta concentration by liquid scintillation counting
Health Phys, 68(5) (1995) 674-682

Gamma nuclides
USEPA 901.0 (1980)

2.58 Environmental Monitoring

Radiochemical assay for the following nuclides in accordance with the methods indicated:

(c) Soils, sediments

Radium-226 and other natural gamma radionuclides
J. Radioanal.Nucl.Chem., 115 (1987) 263

Gamma nuclides
Gamma spectrometry

(d) Other materials

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Surface swabs
(Wipe Test)

Radionuclide contamination of surfaces
In-house (Wipe Test)

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