



Awanui Scientific

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Authorised Representative

Mrs Bronwen Reid
Compliance Manager

Programme

Chemical Testing Laboratory

Accreditation Number 436

Initial Accreditation Date 10 February 1992

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

General Chemistry

2.31 Foods
2.36 Agricultural Products and Agricultural Materials
2.61 Biological Specimens

Inorganics

2.31 Foods
2.61 Biological Specimens

Organics

2.31 Foods

Operations Manager
Authorisation:

Issue 58

Date:20/03/25

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SCOPE OF ACCREDITATION

Accreditation Number 436

General Chemistry

2.31 Foods

The following tests in accordance with Association of Official Analytical Chemists, Official Methods of Analysis (online) except where otherwise indicated.

- (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**
- (l) **Food additives and supplements (preservatives)**
- (o) **Other specified foods**

Fatty acid profile 2012.13 (modified)
 Total Sugars R-Biopharm Enzymatic

(a) Cereals and cereal products

Protein (DUMAS) 990.03
 Total Dietary fibre (Ankom automated) 991.43
 Total Fat Solvent Recovery Extractor for the Determination of
 Fats and Oil Instruction Manual (2000) page 18
 Gluten 991.19

(c) Nuts, fruits, vegetables and derived products

Protein (DUMAS) 990.03
 Total Dietary fibre (Ankom automated) 991.43

(e) Sugar and sugar confectionery

Protein (DUMAS) 990.03

(g) Meat, poultry and derived products

Ash 942.05
 Carbohydrate (by difference) FSANZ 1.2.8
 Crude fat In-house
 Crude fibre AOCS Ba 6a-05

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Energy	(by calculation) FSANZ 1.2.8
Gluten	991.19
Histamine	Perkin Elmer MaxSignal Histamine Enzymatic Assay
Moisture	950.46B
Pepsin digestion	971.09
Protein	981.10 (modified)
Protein (DUMAS)	990.03
Salt	937.09
Total Dietary fibre (Ankom automated)	991.43
Total Fat	Solvent Recovery Extractor for the Determination of Fats and Oil Instruction Manual (2000) page 18
TVBN (Total volatile base nitrogen)	Pearson's Chemical Analysis of Foods (8 th Edition)

(h) Fish and fish products

Gluten	991.19
Histamine	Perkin Elmer MaxSignal Histamine Enzymatic Assay
Protein (DUMAS)	990.03
Total Fat	Solvent Recovery Extractor for the Determination of Fats and Oil Instruction Manual (2000) page 18
Total Dietary fibre (Ankom automated)	991.43
TVBN (Total volatile base nitrogen)	Pearson's Chemical Analysis of Foods (8 th Edition)
Salt	937.09

(i) Food additives and supplements (preservatives)

Gluten	991.19
Sulphur dioxide	Methods of Biochemical Analysis and Food Analysis (1995 Boehringer Mannheim and GmbH)

2.36 Agricultural Products and Agricultural Materials

The following tests in accordance with Association of Official Analytical Chemists, Official Methods of Analysis (online) except where otherwise indicated.

(c) Stockfoods

Ash	942.05
Crude fat	960.39
Crude Fibre	AOCS Ba 6a-05
Moisture	950.46 B
Pepsin digestion	971.09
Protein	981.10 (modified)

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2.61 Biological Specimens

- (a) Residues in specified human specimens
- (b) Residues in specified veterinary specimens

Vitamin A & E (plasma/serum)

HPLC-UV Bio-Rad Laboratories GmbH (2013, June)
 Ref 195-5869

Inorganics

2.31 Foods

The following tests in accordance with Association of Official Analytical Chemists, Official Methods of Analysis (online) except where otherwise indicated.

- (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
- (l) Food additives and supplements
- (o) Other specified foods

The following elements by In-house ICP-MS procedure:

Aluminium	Arsenic	Cadmium	Calcium
Chromium	Cobalt	Copper	Iron
Lead	Magnesium	Manganese	Molybdenum
Nickel	Phosphorus	Selenium	Sodium
Tin	Titanium	Zinc	

(h) Fish and fish products

Mercury

ICP-MS In-house procedure

2.61 Biological Specimens

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

Trace and heavy metals in sera/plasma/whole blood/tissue samples by In-house ICP-MS procedure:

Arsenic	Cadmium	Cobalt	Copper
Iron	Lead	Manganese	Molybdenum
Nickel	Selenium	Zinc	

Organics

2.31 Foods

(o) **Honey**

2 -Methoxybenzoic acid	LC-MS/MS In-house procedure
2'-Methoxyacetophenone	LC-MS/MS In-house procedure
3-Phenyllactic acid	LC-MS/MS In-house procedure
4-Hydroxyphenyllactic acid	LC-MS/MS In-house procedure
5-hydroxymethylfurfural (HMF)	HPLC-UV in accordance with in-house procedure
Amitraz (and metabolites)	LC-MS/MS In-house procedure
Brix	Harmonised Methods of the International Honey Commission
Colour	In-house (spectrophotometry)
Conductivity	Harmonised Methods of the International Honey Commission
Diastase activity	Phadebas Amylase test
Dihydroxyacetone (DHA)	HPLC-UV in accordance with in-house procedure
Glyphosate, AMPA and Glufosinate	LC-MS/MS In-house procedure
Leptosperin	LC-MS/MS In-house procedure
Methylglyoxal (MGO)	HPLC-UV in accordance with in-house procedure
Moisture	AOAC 969.38 (online edition)
Reducing Sugars	R-Biopharm Enzymatic
Tutin	LC-MS/MS In-house procedure

References:

AOAC AOAC International
 AOCS American Oil Chemists Society

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