



Awanui Scientific

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Authorised Representative

Mrs Bronwen Reid
Compliance Manager

Programme

Biological Testing Laboratory

Accreditation Number 391

Initial Accreditation Date 7 September 1989

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Biochemistry

1.02 Diagnostic Tests, Veterinary

Haematology

1.02 Diagnostic Tests, Veterinary

Microbiology

1.02 Diagnostic Tests, Veterinary

General Microbiology

1.11 Foods
1.12 Waters
1.71 Biological Condition

Molecular Biology

1.11 Foods
1.71 Biological Condition

Key Technical Personnel

Operations Manager
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CERTIFICATE OF ACCREDITATION



Biochemistry

Mrs Denise Carian-Smith 1.02 (a)
Mrs Bronwen Reid 1.02 (a)

Haematology

Mrs Denise Carian-Smith 1.02 (b)
Mrs Bronwen Reid 1.02 (b)

Microbiology

Ms Victoria Fitiao 1.02 (f)
Miss Antoinette McIntosh 1.02 (f)

General Microbiology

Ms Victoria Fitiao 1.11, 1.12, 1.71
Miss Antoinette McIntosh 1.11, 1.12, 1.71

Molecular Biology

Ms Ana Carbonell 1.11 (n)
Ms Victoria Fitiao 1.11, 1.71
Miss Antoinette McIntosh 1.11, 1.71
Dr Saeed Sharif 1.11, 1.71
Dr David Tisdall 1.11, 1.71

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Biochemistry

1.02 Diagnostic Tests, Veterinary

(a) Biochemistry

The following tests in accordance with the Roche/COBAS Manufacturer's method:

Alanine Aminotransferase (ALT)
Albumin
Alkaline Phosphatase
Amylase
Aspartate Aminotransferase (AST)
Bicarbonate
Bilirubin
Calcium
Chloride
Cholesterol
Creatine Kinase (CK)
Creatinine
Gamma Glutamyl Transferase (GGT)
Glucose
Glutamate dehydrogenase (GLDH)
Lipase
Magnesium
Phosphate
Potassium
Sodium
Total protein
Urea

The following tests in accordance with the methods indicated:

β-hydroxybutyrate	Clinical Chem. (1984) 30.3
Ferroxidase	Tietz (1976) Fundamentals of Clinical Chemistry 2 nd Edition
Glutathione peroxidase	RES-Vet-Sci (1980) 28, 321-324
Lead (blood)	Perkin Elmer Notice 2011

Haematology

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1.02 Diagnostic Tests, Veterinary

(b) Haematology

Routine analysis of canine, feline, ovine, cervine, equine, bovine, caprine, porcine and zoo/exotic blood and plasma for:

Complete blood count using Sysmex XN-1000V:

Haematocrit (HCT)
Haemoglobin
Mean Cell Haemoglobin (MCH)
Mean Cell Haemoglobin Concentration (MCHC)
Mean Cell Volume (MCV)
Platelets
Red cell count
White cell count

The following haematology tests by the methods indicated:

Blood film staining	Leishman's stain
Heinz bodies	Methylene blue method
Packed cell volume	Microhaematocrit method
Parasite identification	Microscopy
Reticulocyte count	Methylene blue method

Differential cell count using methods as indicated:

Platelet morphology	Microscopy with Leishman's stain
Red cell morphology	Microscopy with Leishman's stain
White cell differential	Microscopy with Leishman's stain
White cell morphology	Microscopy with Leishman's stain

Microbiology

1.02 Diagnostic Tests, Veterinary

(f) Microbiology

Conducting the following staining technique:

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Bacterial Gram

Cultures for the following enteric pathogens:

Campylobacter

Salmonella

Yersinia

Antibiotic sensitivity testing (Kirby-Bauer method)

Routine aerobic and anaerobic cultures; unknown pathogens with identification of organisms by biochemical testing

General Microbiology

1.11 Foods

- (a) Cereals and cereal products
- (c) Nuts, fruits, vegetables and derived products
- (d) Sauces, herbs, spices and condiments
- (e) Sugar and sugar confectionery
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (n) Honey

APHA Compendium of Methods for the Microbiological Examination of Foods (5th Edition) unless where otherwise stated

Aerobic plate count	APHA 8
Aerobic plate count	MIMM 6
<i>Bacillus cereus</i>	APHA 31
Campylobacter	FDA BAM Chapter 7
<i>Clostridium perfringens</i>	APHA 33
Coagulase positive Staphylococcus	APHA 39
Coliform - MPN	APHA 9
<i>E. coli</i> - MPN	APHA 9
<i>E. coli</i> / Coliforms (Petrifilm)	APHA 9.935
Enterobacteriaceae	APHA 9
Faecal Coliforms - MPN	APHA 9
Salmonella	MIMM 7.7 (g) only (culture method)
Salmonella	FDA BAM Chapter 5
Shigella	APHA 37
Yeasts and moulds	APHA 21

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(c) Nuts, fruits, vegetables and derived products

Listeria (enumeration) ISO 11290-2:2017

(h) Fish and fish products

Salmonella FDA BAM Chapter 5

(i) Eggs and egg products

3M Petrifilm Rapid Aerobic Count Plate AOAC 2015.13

(n) Honey

Aerobic Plate Count GB 4789.2-2010
Osmophilic yeast count GB 14963-2011
Yeast and moulds GB 4789.15-2016

1.12 Waters

(a) Potable waters

E. coli MIMM 11.A2
Faecal Coliforms MIMM 11.A2
Total Aerobic Plate Count MIMM 11.6.2
Total Coliforms MIMM 11.A2

1.71 Biological Condition

(a) Air

Aerobic plate count APHA 3
Yeasts and mould APHA 3

(b) Plant hygiene evaluation

Coliforms In-house method
Enterobacteriaceae APHA 9
Salmonella FDA BAM Chapter 5
Total count In-house method (FMI-TPM-029)

Molecular Biology

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1.11 Foods

- (a) Cereals and cereal products
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Listeria 3M MDS Listeria V2 (AOAC 2016.07)
Salmonella 3M MDS V2 AOAC 2016.01

(n) Honey

Detection of American Foulbrood (qPCR) In-house procedure
Leptospermum scoparium DNA (PCR) MPI technical paper No 2017/31

1.71 Biological Condition

(b) Plant hygiene evaluation

Listeria 3M MDS
Listeria 3M MDS Listeria V2 (AOAC 2016.07)
Salmonella 3M MDS

References:

AOAC	AOAC International
APHA Comp	APHA Compendium of Methods for the Microbiological Examination of Foods (5 th Edition)
FDA BAM	United States Food and Drug Administration Bacteriological Analytical Manual (8 th Edition) and Online
GB	China National Standards
ISO	International Organization for Standardization
MIMM	Meat Industry Microbiological Methods (5 th Edition)

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