



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

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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	8
Aerobic plate count	MIMM 6
<i>Bacillus cereus</i>	31
Campylobacter	FDA BAM Chapter 7
<i>Clostridium perfringens</i>	33
Coagulase positive Staphylococcus	39
Coliform (MPN)	9
<i>E. coli</i> (MPN)	9
<i>E. coli</i> / Coliforms (Petrifilm)	9.935
Enterobacteriaceae (Petrifilm)	9
Faecal Coliforms (MPN)	9
Rapid Yeasts and Moulds (Petrifilm)	AOAC 2014.05 (excludes Fish and fish products)
Salmonella	MIMM 7.7 (g) only (culture method)
Salmonella	FDA BAM Chapter 5
Shigella	37
Yeasts and moulds	21

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(f) Dairy products

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

Aerobic Plate Count	8
<i>Bacillus cereus</i>	31
Coagulase positive Staphylococcus	39
<i>E. coli</i> / Coliforms (Petrifilm)	9.935
Enterobacteriaceae (Petrifilm)	9
Salmonella	MIMM 7.7 (g) only (culture method)
Yeasts and Moulds	Ch 21

(c) Nuts, fruits, vegetables and derived products

Listeria (enumeration)	ISO 11290-2:2017
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(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

<i>E. coli</i>	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 (Petrifilm)	APHA 9
Salmonella	FDA BAM Chapter 5

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Total count

In-house method (FMI-TPM-029)

Molecular Biology

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

Listeria
Salmonella

Neogen MDS Listeria V2 (AOAC 2016.07)
Neogen MDS V2 AOAC 2016.01

(f) Dairy products
Listeria

Neogen MDS Listeria V2 (AOAC 2016.07)

(n) Honey

American Foulbrood (detection)

qPCR, Dnature kits (Genomic DNA Honey & AFB duo PCR)

Leptospermum scoparium DNA

qPCR, MPI technical paper No 2017/31

1.71 Biological Condition

(b) Plant hygiene evaluation

Listeria
Listeria
Salmonella

Neogen MDS
Neogen MDS Listeria V2 (AOAC 2016.07)
Neogen MDS

References:

AOAC AOAC International
APHA Comp APHA Compendium of Methods for the Microbiological Examination of Foods (5th Edition)
FDA BAM United States Food and Drug Administration Bacteriological Analytical Manual (8th Edition)

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CERTIFICATE OF ACCREDITATION



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GB and Online
ISO China National Standards
MIMM International Organization for Standardization
Meat Industry Microbiological Methods (5th Edition)

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