



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:

- | | |
|--|--|
| <ul style="list-style-type: none"> β-hydroxybutyrate Ferroxidase
 Glutathione peroxidase Lead (blood) | <ul style="list-style-type: none"> Clinical Chem. (1984) 30.3 Tietz (1976) Fundamentals of Clinical Chemistry 2nd Edition RES-Vet-Sci (1980) 28, 321-324 Perkin Elmer Notice 2011 |
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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 Neogen MDS Listeria V2 (AOAC 2016.07)
 Salmonella 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 Neogen MDS
 Listeria Neogen MDS Listeria V2 (AOAC 2016.07)
 Salmonella 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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and Online
GB China National Standards
ISO International Organization for Standardization
MIMM Meat Industry Microbiological Methods (5th Edition)

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