CERTIFICATE OF ACCREDITATION

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Awanui Scientific **Client Number 1609**

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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

Virology
1.02 Diagnostic Tests, Veterinary

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)
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 2nd Edition
Glutathione peroxidise	RES-Vet-Sci (1980) 28, 321-324

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Haematology

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
Bacillus cereus	31
Campylobacter	FDA BAM Chapter 7
Clostridium perfringens	33
Coagulase-positive *Staphylococcus*	39
Coliform (MPN)	9
Escherichia coli (MPN)	9
Escherichia coli / 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)
Shigella	37
Yeasts and Moulds	21

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(a) Cereals and cereal products
(c) Nuts, fruits, vegetables and derived products
(g) Meat, poultry and derived products
(i) Eggs and egg products
(q) Animal feeds

Listeria monocytogenes (enumeration)	ISO 11290-2:2017
Listeria spp. (enumeration)	ISO 11290-2:2017

(f) Dairy products

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

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

(n) Honey

Aerobic Plate Count	GB 4789.2-2010
Osmophilic Yeast Count	GB 14963-2011
Yeasts and Moulds	GB 4789.15-2016

1.12 Waters

(a) Potable waters

Escherichia 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 Ch 3.10
Yeasts and Moulds	APHA Ch 3.10

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(b) Plant hygiene evaluation

Coliforms	In-house method
Enterobacteriaceae (Petrifilm)	APHA Ch 9.63
Total Count	In-house method (FMI-TPM-029)

Virology

1.02 Diagnostic Tests, Veterinary

(h) Virology

Analysis of oropharyngeal/tracheal swabs using PCR techniques:

Avian Influenza (AI)

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 spp.	Neogen MDS Listeria V2 (AOAC 2016.07)
Salmonella	Neogen MDS V2 AOAC 2016.01
Salmonella serovars Typhimurium and Enteritidis confirmation	SureTect™ Multiplex PCR Assay

(c) Nuts, fruits, vegetables and derived products
(d) Sauces, herbs, spices and condiments
(f) Dairy products
(g) Meat, poultry and derived products
(h) Fish and fish products

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Listeria monocytogenes	Neogen MDS Listeria V2 (AOAC 2016.08)

(f) Dairy products

Listeria spp.	Neogen MDS Listeria V2 (AOAC 2016.07)

1.71 Biological Condition

(b) Plant hygiene evaluation

Listeria spp.	Neogen MDS Listeria V2 (AOAC 2016.07)
Listeria monocytogenes	Neogen MDS Listeria V2 (AOAC 2016.08)
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) and Online
GB	China National Standards
ISO	International Organization for Standardization
MIMM	Meat Industry Microbiological Methods (5th Edition)

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