

Laboratory Accreditation Programmes

 Schedule to
CERTIFICATE OF ACCREDITATION

 Hill Laboratories
 Hamilton

Client No. 590

 Private Bag 3205, Waikato Mail Centre, Hamilton, 3240
 28 Duke St, Frankton, Hamilton, 3204

Telephone 0508 445-5522
www.hill-laboratories.com
Authorised Representative

 Ms Gillian Lees
 Quality Management Contractor

Programme

Biological Testing Laboratory

Accreditation Number 1287
Initial Accreditation Date 16 November 2017
Conformance Standard

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

Testing Services Summary
Foods

 1.11 Foods
 1.71 Biological Condition

Waters

1.12 Waters

Molecular

1.62 Molecular Biology

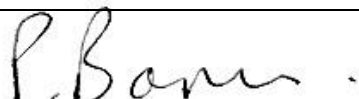
Key Technical Personnel
Foods

Mrs Priya Babu	1.11 (selected), 1.71
Ms April Flett	1.11 (selected), 1.71
Dr Eilidh Mowat	1.11, 1.71; selected
Mrs Shobhna Ram	1.11 (selected), 1.71
Mr Kevin Wang	1.11, 1.71
Ms Ester Woollaston	1.11, 1.71

Waters

Mrs Priya Babu	1.12
Ms April Flett	1.12
Mrs Shobhna Ram	1.12

 Authorised:
 General Manager



Issue 5

Date: 15/08/19

Page 1 of 7

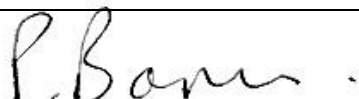
Laboratory Accreditation Programmes

Schedule to
CERTIFICATE OF ACCREDITATION

Mr Kevin Wang	1.12
Ms Ester Woollaston	1.12

Molecular

Ms Fiona Calvert	1.62 (selected)
Mr Jon Harris	1.62 (selected)
Dr Eilidh Mowat	1.62
Ms Ester Woollaston	1.62 (selected)

Authorised:
General Manager

Issue 5

Date: 15/08/19

Page 2 of 7

Schedule to
CERTIFICATE OF ACCREDITATION

Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

Foods

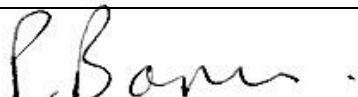
1.11 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and derived products
- (c) Nuts, fruits, vegetables and derived products
- (d) Sauces, herbs, spices and condiments
- (e) Sugar and sugar confectionery
- (f) Dairy products
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (k) Non-alcoholic beverages
- (p) Canned foods
- (q) Animal feeds

The following tests are in accordance with APHA Compendium for the Microbiological Examination of Foods (5th Edition) methods unless were otherwise stated:

Aerobic Plate Count	6.523, 8.72
Aerobic Plate Count	6.524, 8.73
Aerobic Plate Count	8.82
Aerobic Plate Count (pour plate)	MIMM 6
Aerobic Plate Count (spread plate)	MIMM 6
Aerobic Plate Count (petrifilm)	MIMM 6
Aerobic Plate Count	TEMPO AC
<i>Bacillus cereus</i>	31
<i>Bacillus cereus</i>	31 (modified)
<i>Bacillus cereus</i> (count)	TEMPO BC
Coliform (count)	TEMPO CC
<i>E.coli</i> (count)	TEMPO EC
<i>E.coli</i> – Petrifilm	9.935
<i>E.coli</i> – Petrifilm	MIMM 8.4.
<i>E.coli</i> – MPN	9.93
Enterobacteriaceae	MIMM 8.2
Enterobacteriaceae	9.62 (modified)
Enterobacteriaceae	9.63 (modified)
Enterobacteriaceae (count)	TEMPO EB
Faecal Coliforms MPN	9.81
<i>Listeria</i> count	ISO 11290-2 Amendment 1 (2004)(modified)
<i>Listeria</i> (PCR)	In-House
Mould	21.51
Presumptive Coliforms-MPN	9.71

Authorised:
General Manager



Issue 5

Date: 15/08/19

Page 3 of 7

Schedule to
CERTIFICATE OF ACCREDITATION

Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

Salmonella (PCR)	In-House
<i>Staphylococcus aureus</i>	39.6
<i>Staphylococcus aureus</i>	MIMM 7.8
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Total Coliforms MPN	9.72
Total Coliforms – Petrifilm	9.935
Yeast & Mould	21.51
Yeast & Mould	21.52
Yeast & Mould	21.5 (modified)
Yeast & Mould	TEMPO MPN

(f) Dairy products

Cronobacter (PCR)	In-House
-------------------	----------

(k) Non-alcoholic beverages (syrops, juices)

Aciduric Plate Count	58.5 & 8.73
Aciduric Plate Count (MF using Orange Serum Agar)	6.54 / 58.552
Aerobic Plate Count (MF)	6.54
Yeasts & Moulds (MF)	21.51
Yeasts & Moulds (MF)	21.52
Xerophilic Yeast & Mould Counts (MF)	21.52

(n) Other specified fresh foods

Leptospermum scoparium DNA (PCR) (honey)	PCR as per MPI Technical Paper 2017/31
Leptospermum scoparium DNA (PCR) (honey) (modified)	PCR as per MPI Technical Paper 2017/31
Osmophilic fungi count	17.3
<i>Staphylococcus aureus</i>	39.6

(n) Other specified fresh foods

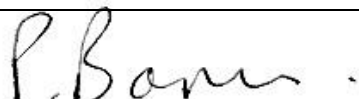
(o) Other specified preserved foods

Aerobic Plate Count	TEMPO AC
<i>Bacillus cereus</i> (count)	TEMPO BC
Coliform (count)	TEMPO CC
<i>E. coli</i> (count)	TEMPO EC
Enterobacteriaceae (count)	TEMPO EB
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Yeast & Mould	TEMPO MPN
Yeast & Mould	APHA 5 th Edition – Chapter 21.5 (modified)

1.71 Biological Condition

(b) Plant hygiene evaluation

Authorised:
General Manager



Issue 5

Date: 15/08/19

Page 4 of 7

Laboratory Accreditation Programmes

Schedule to
CERTIFICATE OF ACCREDITATION

Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

The following tests are in accordance with APHA Compendium for the Microbiological Examination of Foods (5th Edition) methods unless were otherwise stated:

Aerobic Plate Count	8.82
Aerobic Plate Count	MIMM 6
Aerobic Plate Count	TEMPO AC
<i>Bacillus cereus</i> (count)	TEMPO BC
Coliform (count)	TEMPO CC
Cronobacter (PCR)	In-House
<i>E.coli</i> (count)	TEMPO EC
<i>E coli</i> – Petrifilm	9.935
<i>E coli</i> – Petrifilm	MIMM 8.4.
Enterobacteriaceae	MIMM 8.2
Enterobacteriaceae	9.62 (modified)
Enterobacteriaceae	9.63 (modified)
Enterobacteriaceae (count)	TEMPO EB
Listeria (PCR)	In-House
Listeria count	ISO 11290-2 Amendment 1(2004) (modified)
Salmonella (PCR)	In-House
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Total Coliforms – Petrifilm	9.935
Yeast & Mould	21.5 (modified)
Yeast & Mould	TEMPO MPN

Waters

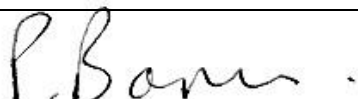
1.12 Waters

- (a) **Potable waters**
- (b) **Non-potable waters e.g. receiving waters, ground waters**
- (c) **Sewage**
- (d) **Effluent and trade wastes**
- (e) **Cooling tower and industrial waters**
- (f) **Swimming and spa pools**
- (g) **Marine waters**

The following tests are in accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (23rd Edition) except where otherwise indicated.

Aerobic Plate Count 22°C	MIMM 11.6
<i>E coli</i> - MF	9222 G
<i>E coli</i> - MPN	9221 F
<i>E coli</i> -MPN (TBX)	9221 F (modified)
<i>E coli</i> - MPN	9223 B Colilert

Authorised:
General Manager



Issue 5

Date: 15/08/19

Page 5 of 7

Schedule to
CERTIFICATE OF ACCREDITATION

Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

<i>E coli</i> - P/A	9223 B Colilert
<i>E.coli</i>	MIMM 11.A1.1
<i>E coli</i> - MPN	MIMM 11.A2.6
Enterococci	MIMM 12.4
Enterococci - MF	9230 C (modified)
Faecal coliforms - MF	9222 D
Faecal coliforms - MPN	9221 E
Faecal Coliforms	MIMM 11.A2
Heterotrophic plate count	9215 B
<i>Pseudomonas aeruginosa</i>	9213 E
<i>Staphylococcus aureus</i>	9213 B
Total coliforms - MF	9222 B
Total coliforms - MPN	9221 B
Total coliforms - MPN	9223 B Colilert
Total coliforms - P/A	9223 B Colilert
Total Coliforms	MIMM 11.A1.1
Total Coliforms	MIMM 11.A2
Total Coliforms	MIMM 11.A2.6

(a) Potable waters

<i>Clostridium perfringens</i> , including Spores (MF)	MIMM 11.A3
<i>E coli</i> (MF)	AS 4276.7: 2007
Faecal Coliforms (MF)	AS 4276.7: 2007
Faecal Streptococci (MF)	MIMM 11.7
Heterotrophic Plate Count	AS 4276.3.1: 2007
Heterotrophic Plate Count	ISO 6222:1999
<i>Pseudomonas aeruginosa</i> (MF)	AS 4276.13: 2008
Sulphite Reducing Clostridia including spores (MF)	EA Microbiology Drinking Water 2010 (Part 6)
Total Coliforms (MF)	AS 4276.5: 2007

(e) Cooling tower and industrial waters

Legionella AS/NZS 3896: 2017

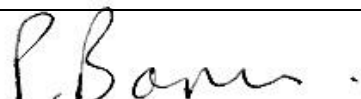
Molecular

1.62 Molecular Biology

(b) DNA typing

Detection of American Foulbrood by qPCR
 Detection of American Foulbrood by qPCR (in-house)
 Testing for the following bacteria in kiwifruit plant material using Psa-V Taqman Real-Time PCR

Authorised:
General Manager



Issue 5

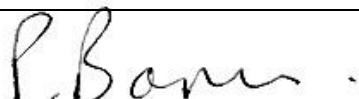
Date: 15/08/19

Page 6 of 7

Schedule to

CERTIFICATE OF ACCREDITATIONHill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

Pseudomonas syringae pv. *actinidiae* (Psa)**References:**AS/NZS Australian / New Zealand Standards
ISO International Standards Organisation
MIMM Meat Industry Microbiological Methods (5th Edition)Authorised:
General Manager

Issue 5

Date: 15/08/19

Page 7 of 7