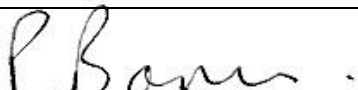


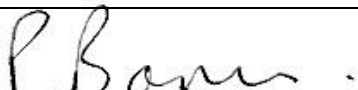
Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION	
Hill Laboratories Microbiology - Hamilton	Client No. 4064
Private Bag 3205, Waikato Mail Centre, Hamilton, 3240 1 Clow Place, Melville, Hamilton, 3206	
Telephone 0508 445-5522 Fax	www.hill-laboratories.com
Authorised Representative Mrs Shobhna Ram Microbiology Team Leader	
Programme Biological Testing Laboratory	
Accreditation Number 823	Initial Accreditation Date 29 April 2002
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 Biology	
1.62	Molecular Biology
Key Technical Personnel	
Foods	
Mrs Priya Babu	1.11 (selected), 1.71
Mrs Varsha Boby	1.11, 1.71
Ms Ahalya Mala	1.11 (selected), 1.71
Dr Eilidh Mowat	1.11 (selected), 1.71 (selected)
Mrs Shobhna Ram	1.11 (selected), 1.71 (selected)
Mr Kevin Wang	1.11 (selected), 1.71
Waters	
Mrs Priya Babu	1.12 (selected)
Mrs Varsha Boby	1.12

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Laboratory Accreditation Programmes

Schedule to	
CERTIFICATE OF ACCREDITATION	
Ms Ahalya Mala	1.12 (selected)
Mrs Shobhna Ram	1.12 (selected)
Mr Kevin Wang	1.12
Molecular Biology	
Ms Fiona Calvert	1.62
Mr Jon Harris	1.62
Dr Eilidh Mowat	1.62

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 Biological Testing Laboratory
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Foods

1.11 Foods

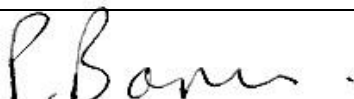
- (a) **Cereals and cereal products**
- (b) **Edible oils, fats and derived products**
- (c) **Nuts, fruits, vegetables and derived products**
- (d) **Sauces, herbs, spices and condiments**
- (e) **Sugar and sugar confectionery**
- (f) **Dairy products**
- (g) **Meat, poultry and derived products**
- (h) **Fish and fish products**
- (i) **Eggs and egg products**
- (k) **Non-alcoholic beverages (syrops, juices)**
- (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
<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)
Faecal Coliforms MPN	9.81
Listeria (PCR)	In-House
Mould	21.51
Presumptive Coliforms-MPN	9.71
Salmonella (PCR)	In-House
<i>Staphylococcus aureus</i>	39.6
<i>Staphylococcus aureus</i>	MIMM 7.8
Total Coliforms – Petrifilm	9.935
Total Coliforms MPN	9.72
Yeast & Mould	21.51
Yeast & Mould	21.52

(f) Dairy products

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Cronobacter (PCR) In-House

(k) Non-alcoholic beverages (syrups, 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

1.71 Biological Condition

(b) Plant hygiene evaluation

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
Cronobacter (PCR)	In-House
<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)
Listeria (PCR)	In-House
Salmonella (PCR)	In-House
Total Coliforms – Petrifilm	9.935

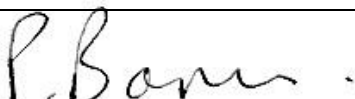
Waters

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

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Wastewater" (22nd 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
<i>E coli</i> - P/A	9223 B Colilert
<i>E.coli</i>	MMMM 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	MMMM 11.A1.1
Total Coliforms	MMMM 11.A2
Total Coliforms	MMMM 11.A2.6

(a) Potable waters

Faecal Streptococci (MF)	MIMM 11.7
<i>Clostridium perfringens</i> , including Spores (MF)	MIMM 11.A3
Total Coliforms (MF)	AS 4276.5: 2007
Faecal Coliforms (MF)	AS 4276.7: 2007
<i>E coli</i> (MF)	AS 4276.7: 2007
<i>Pseudomonas aeruginosa</i> (MF)	AS 4276.13: 2008
Heterotrophic Plate Count	AS 4276.3.1: 2007
Heterotrophic Plate Count	ISO 6222:1999

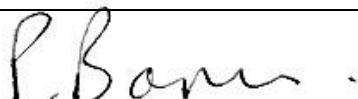
(e) Cooling tower and industrial waters

Legionella AS/NZS 3896: 2008

Molecular Biology

1.62 Molecular Biology

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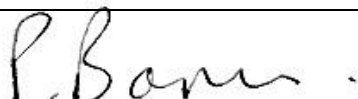
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(b) DNA typing

Testing for the following bacteria in kiwifruit plant material using Psa-V Taqman Real-Time PCR

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