Schedule to

CERTIFICATE OF ACCREDITATION



Hill Laboratories Client Number 590

Hamilton

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Authorised Representative

Ms Leisle Jacobsen

Quality Manager/Lead Auditor

Programme

Biological Testing Laboratory

Accreditation Number 1287 Initial Accreditation Date 16 November 2017

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Drugs and Pharmaceuticals

1.03 Drugs and Pharmaceuticals

Foods

1.11 Foods

1.71 Biological Condition

Waters

1.12 Waters

Molecular Biology

1.03 Drugs and Pharmaceuticals

1.11 Foods

1.62 Molecular Biology1.71 Biological Condition

Key Technical Personnel

Drugs and Pharmaceuticals

Mrs Priya Babu 1.03 Mr Aarav Marwaha 1.03

Operations Manager Authorisation:

1 HOBERO-

Issue 24

Date:03/10/23

Page 1 of 8









Mrs Shobhna Ram	1.03		
Mr Kevin Wang	1.03		
Ms Ester Woollaston	1.03		
Foods			
Mrs Priya Babu	1.11, 1.71		
Mr Aarav Marwaha	1.11, 1.71		
Dr Eilidh Mowat	1.11, 1.71; selected		
Mrs Shobhna Ram	1.11, 1.71		
Mr Kevin Wang	1.11, 1.71		
Ms Ester Woollaston	pollaston 1.11, 1.71		
Waters			
Mrs Priya Babu	1.12		
Mr Aarav Marwaha	1.12		
Mrs Shobhna Ram	1.12		
Mr Kevin Wang	1.12		
Ms Ester Woollaston	1.12		
Malagular Dialogu			
Molecular Biology	4 00 4 44 (11) 4 74		
Mrs Priya Babu	1.03, 1.11 (selected), 1.71		
Ms Fiona Calvert	1.62; selected		
Mr Jon Harris	1.62; selected		
Dr Sara Loeffen	1.62; selected		
Mr Aarav Marwaha	1.03, 1.11, 1.62 (selected), 1.71		
Dr Eilidh Mowat	1.03, 1.11, 1.62, 1.71		
Mrs Shobhna Ram	1.03, 1.11, 1.62 (selected), 1.71		
Mr Kevin Wang	1.03, 1.11, 1.62 (selected), 1.71		
Ms Ester Woollaston	1.03, 1.11, 1.62, 1.71		

Operations Manager Authorisation:	sporto	Issue 24	Date:03/10/23	Page 2 of 8
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Schedule to

CERTIFICATE OF ACCREDITATION





Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

Drugs and Pharmaceuticals

1.03 Drugs and Pharmaceuticals

(a) Microbiological quality (including sterility) (Cannabis)

Aerobic plate count APHA 8.82 (modified)

Aerobic plate count European Pharmacopoeia (Modified)
Bile Tolerant Gram Negative Bacteria European Pharmacopoeia (Modified)

E. coli

European Pharmacopoeia (Modified)

Pseudomonas aeruginosa

European Pharmacopoeia (Modified)

European Pharmacopoeia (Modified)

Salmonella European Pharmacopoeia (Modified)

Yeast & Mould (count) APHA 21.51 (Modified)

Yeast & Mould (count) European Pharmacopoeia (Modified)

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
Aerobic Plate Count (pour plate)
Aerobic Plate Count (spread plate)
Aerobic Plate Count (petrifilm)
Aerobic Plate Count
MIMM 6

Bacillus cereus 31

Operations Manager Authorisation: Issue 24 Date:03/10/23 Page 3 of 8

Schedule to

CERTIFICATE OF ACCREDITATION

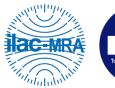




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Hill Laboratories Biological Testing Laboratory SCOPE OF ACCREDITATION	Accreditation Number 1287			
Bacillus cereus Bacillus cereus (count) Coliform (count) E. coli (count) E. coli – Petrifilm E. coli – Petrifilm E. coli – MPN Enterobacteriaceae Enterobacteriaceae Enterobacteriaceae Enterobacteriaceae (count) Faecal Coliforms – MPN Listeria (count) Mould Presumptive Coliforms – MPN Staphylococcus aureus Staphylococcus aureus Staphylococcus aureus (count) Total Coliforms – MPN Total Coliforms – Petrifilm Yeast & Mould	31 (modified) TEMPO BC TEMPO CC TEMPO EC 9.935 MIMM 8.4 9.93 MIMM 8.2 9.62 (modified) 9.63 (modified) TEMPO EB 9.81 ISO 11290-2 (2017) 21.51 9.71 39.6 MIMM 7.8 TEMPO STA 9.72 9.935 21.51 21.52 21.51 (modified) TEMPO YM			
(k) Non-alcoholic beverages (syrups, juices)				
Aciduric Plate Count Aciduric Plate Count (MF using Orange S Aerobic Plate Count (MF) Yeasts & Moulds (MF) Yeasts & Moulds (MF) Xerophilic Yeast & Mould Counts (MF)	58.5 & 8.73 erum Agar) 6.54 / 58.552 6.54 21.51 21.52 21.52			
(n) Other specified fresh foods				
Osmophilic fungi (count) Staphylococcus aureus	17.3 39.6			
(n) Other specified fresh foods (o) Other specified preserved fo	ods			
Aerobic Plate Count Bacillus cereus (count) Coliform (count) E. coli (count) Enterobacteriaceae (count)	TEMPO AC TEMPO BC TEMPO CC TEMPO EC TEMPO EB			
Operations Manager Authorisation:	Date:03/10/23 Page 4 of 8			

Schedule to

CERTIFICATE OF ACCREDITATION





Hill Laboratories

Biological Testing Laboratory

Accreditation Number 1287

SCOPE OF ACCREDITATION

Staphylococcus aureus (count) Yeast & Mould (count)

Yeast & Mould

TEMPO STA TEMPO YM

APHA 5th Edition - Chapter 21.51

(modified)

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 Aerobic Plate Count **TEMPO AC** Bacillus cereus (count) **TEMPO BC** Coliform (count) **TEMPO CC** E. coli (count) **TEMPO EC** E. coli - Petrifilm 9.935 E. coli - Petrifilm **MIMM 8.4** Enterobacteriaceae **MIMM 8.2** Enterobacteriaceae 9.62 (modified) Enterobacteriaceae 9.63 (modified) Enterobacteriaceae (count) **TEMPO EB**

Staphylococcus aureus (count) Total Coliforms - Petrifilm

Yeast & Mould Yeast & Mould (count) 9.935 21.51 (modified) **TEMPO YM**

TEMPO STA

ISO 11290-2 (2017)

Waters

Listeria count

1.12 Waters

Potable waters (a) Non-potable waters (b)

(c) Sewage

Effluent and trade wastes (d)

(e) Cooling tower and industrial waters

(f) Swimming and spa pools

Marine waters (g)

Schedule to

CERTIFICATE OF ACCREDITATION





Hill Laboratories

Biological Testing Laboratory

Accreditation Number 1287

SCOPE OF ACCREDITATION

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

 Aerobic Plate Count 22°C
 MIMM 11.6

 E. coli – MF
 9222 I

 E. coli – MPN
 9221 F

E. coli – MPN(TBX) 9221 F (modified)

E. coli Colilert Quantitray (97 well)

9223 B (excluding marine)

E. coli Colilert Quantitray (51 well)

9223 B (excluding marine)

E. coli – Colilert-18 Quantitray (97 well) 9223 B E. coli – Colilert-18 Quantitray (51 well) 9223 B

E. coli – P/A9223 B ColilertE. coli – QuantitrayMIMM 11.A1Enterococci – QuantitrayMIMM 12.4

Enterococci – MF 9230 C (modified)
Faecal coliforms – MF 9222 D

Faecal coliforms – MPN 9221 E
Faecal coliforms – MPN MIMM 11.A2

Heterotrophic plate count (22 °C, 25 °C, 30 °C, 35 °C, 37 °C) 9215 B

Pseudomonas aeruginosa 9213 E

Staphylococcus aureus 9213 B

Total coliforms – MF 9222 B

Total coliforms – MPN 9221 B

Total coliforms – Colilert Quantitray (97 well)

Total coliforms – Colilert Quantitray (51 well)

Total coliforms – Colilert-18 Quantitray (97 well)

Total coliforms – Colilert-18 Quantitray (51 well)

Total coliforms – Colilert-18 Quantitray (51 well)

9223 B (excluding marine)

9223 B (excluding marine)

Total coliforms – P/A 9223 B Colilert
Total Coliforms – Quantitray MIMM 11.A1
Total Coliforms – MPN MIMM 11.A2

(a) Potable waters

Clostridium perfringens, including Spores – MF MIMM 11.A3

 E. coli – MF
 AS/NZS 4276.7:2007

 Faecal coliforms – MF
 AS/NZS 4276.7:2007

Enterococci (Faecal Streptococci) – MF MIMM 11.7

Heterotrophic Plate Count AS/NZS 4276.3.1:2007
Pseudomonas aeruginosa – MF AS/NZS 4276.13:2008

Sulphite Reducing Clostridia including spores – MF Standing Committee of Analysts

Microbiology Drinking Water 2015

(Part 6A)

Total Coliforms – MF AS/NZS 4276.5:2007

(e) Cooling tower and industrial waters

Legionella AS/NZS 3896:2017

Schedule to

CERTIFICATE OF ACCREDITATION



Hill Laboratories **Biological Testing Laboratory** SCOPE OF ACCREDITATION

Accreditation Number 1287

Molecular Biology

1.03 **Drugs and Pharmaceuticals**

Microbiological quality (including sterility) (Cannabis) (a)

Salmonella PCR In-House method

1.11 **Foods**

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

Listeria PCR In-House method PCR In-House method Salmonella

(f) **Dairy products**

Cronobacter PCR In-House method

Other specified fresh foods (honey) (n)

PCR as per MPI Technical Paper 2017/31 Leptospermum scoparium DNA Leptospermum scoparium DNA PCR as per MPI Technical Paper 2017/31

(modified)

1.62 Molecular Biology

(b) **DNA typing**

Detection of American Foulbrood by qPCR

Operations Manager Authorisation:

1310/8tro-

Issue 24

Date:03/10/23

Page **7** of **8**

Schedule to

CERTIFICATE OF ACCREDITATION



Hill Laboratories
Biological Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1287

Detection of American Foulbrood by qPCR (in-house)

Testing for the following bacteria in kiwifruit plant material using Psa-V Taqman Real-Time PCR Pseudomonas syringae pv. actinidiae (Psa)

1.71 Biological Condition

(b) Plant hygiene evaluation

Cronobacter (PCR)
Listeria (PCR)
Salmonella (PCR)
In-House
In-House

References:

AS/NZS Australian / New Zealand Standards ISO International Standards Organisation

MIMM Meat Industry Microbiological Methods (5th Edition)

Operations Manager Authorisation:

1 HOBERO

Issue 24

Date:03/10/23

Page 8 of 8