



Hill Laboratories Hamilton	Client Number 590
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Authorised Representative
Ms Leisle Jacobsen
Quality Manager/Lead Auditor

Programme
MPI Recognised Laboratory Programme

Accreditation Number 1148 **Initial Accreditation Date 18 January 2016**

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Animal Products Notice – Specifications for Laboratories

Laboratory Services Summary

Potable/Suitable Water for Meat, Poultry, Egg and Honey Industry Microbiology
Meat and Meat Products, Poultry, Petfood, Egg and Egg Product & Honey Microbiology / Parasitology
Potable/Suitable Water – Physico-Chemical Parameters
Animal Products – Chemical Residue Testing (NCRP, NCCP & OMAR)
Honey
Seafood Products and Potable/Suitable Water
Dairy Products – Microbiology
Dairy Products – Composition (includes standards of identity, vitamins, minerals & other nutrients)

Key Technical Personnel

Mrs Priya Babu
1.1.1, 1.2, 1.3, 1.6.1, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.6, 2.9, 11.1.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 11.5.3, 11.5.4, 11.5.10, 11.5.11, 11.6.2, 11.6.7, 11.6.8, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17

Ms Helena Bertram

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Mr Mark Bryant	5.01, 5.02, 5.03, 5.04, 5.10, 5.11, 5.12, 5.13, 5.14, 5.16, 5.17, 5.18, 5.19, 5.20, 5.22, 5.23, 5.24, 5.25, 5.26, 5.28, 5.29, 5.31, 5.32, 5.35, 5.36.1, 5.36.2, 5.36.3, 5.39, 5.40, 5.42, 5.43, 5.44, 5.45, 5.46
Mr Shaun Clay	8.20, 11.5.7, 11.6.6, 32.9, 32.12
Mr Graham Corban	8.40, 8.42, 8.47.1, 10.02, 10.05
Mr Martin Cowell	5.01, 5.02, 5.03, 5.04, 5.10, 5.11, 5.12, 5.13, 5.14, 5.16, 5.17, 5.18, 5.19, 5.20, 5.22, 5.23, 5.24, 5.25, 5.26, 5.28, 5.29, 5.31, 5.32, 5.35, 5.36.1, 5.36.2, 5.36.3, 5.39, 5.40, 5.42, 5.43, 5.44, 5.45, 5.46
Mr Jon Harris	5.01, 5.02, 5.03, 5.04, 5.10, 5.11, 5.12, 5.13, 5.14, 5.16, 5.17, 5.18, 5.19, 5.20, 5.22, 5.23, 5.24, 5.25, 5.26, 5.28, 5.29, 5.31, 5.32, 5.35, 5.36.1, 5.36.2, 5.36.3, 5.39, 5.40, 5.42, 5.43, 5.44, 5.45, 5.46
Miss Ara Heron	5.01, 5.02, 5.03, 5.04, 5.10, 5.11, 5.12, 5.13, 5.14, 5.16, 5.17, 5.18, 5.19, 5.20, 5.22, 5.23, 5.24, 5.25, 5.26, 5.28, 5.29, 5.31, 5.32, 5.35, 5.36.1, 5.36.2, 5.36.3, 5.39, 5.40, 5.42, 5.43, 5.44, 5.45, 5.46
Ms Giselle Jeannes	8.20, 11.5.7, 11.6.6, 32.9, 32.12
Mr Aarav Marwaha	1.1.1, 1.2, 1.3, 1.6.1, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.6, 2.9, 2.14, 10.04, 11.1.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 11.5.3, 11.5.4, 11.5.10, 11.5.11, 11.6.2, 11.6.7, 11.6.8, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Ms Helen McGowan	8.40, 8.42, 8.47.1, 10.02, 10.05
Dr Bruce Morris	8.40, 8.42, 8.47.1, 10.02, 10.05
Dr Eilidh Mowat	2.1.1, 2.2.1, 2.4.1, 2.6, 2.14, 10.04, 11.5.3, 11.5.4, 11.5.10, 11.5.11, 11.6.7, 11.6.8, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Mrs Shobhna Ram	1.1.1, 1.2, 1.3, 1.6.1, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.6, 2.9, 2.14, 10.04, 11.1.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 11.5.3, 11.5.4, 11.5.10, 11.5.11, 11.6.2, 11.6.7, 11.6.8, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Mrs Sukhjeet Singh	8.20, 11.5.7, 11.6.6, 32.9, 32.12
Mrs Kim Thomas	8.20, 11.5.7, 11.6.6, 32.9, 32.12
Mr Kevin Wang	1.1.1, 1.2, 1.3, 1.6.1, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.6, 2.9, 2.14, 10.04, 11.1.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 11.5.3, 11.5.4,

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11.5.10, 11.5.11, 11.6.2, 11.6.7, 11.6.8, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17

Ms Ester Woollaston

1.1.1, 1.2, 1.3, 1.6.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.6, 2.9, 2.14, 10.04, 11.1.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 11.5.3, 11.5.4, 11.5.10, 11.5.11, 11.6.2, 11.6.7, 11.6.8, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17

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Hill Laboratories

MPI Recognised Laboratory Programme

Accreditation Number 1148

SCOPE OF ACCREDITATION

The MPI Recognised Laboratory Programme commenced in 2015, replacing prior regulatory recognition/approval schemes for testing laboratories under the Animal Products Act. This accreditation replaces previously held accreditations by this laboratory in the following IANZ Laboratory Accreditation Programmes called up under the Animal Products Act.

IANZ Laboratory Accreditation Programme	Accreditation Number	Date of Initial Accreditation
Dairy Testing Laboratory	762	10/04/2001
MPI Laboratory Approval Scheme	887	30/01/2004

Potable/Suitable Water for Meat, Poultry, Egg and Honey Industry Microbiology

In accordance with MIMM: Microbiological Methods for the Meat Industry (5th Edition) unless otherwise stated.

1.1.1	Total coliforms (coliform bacteria), <i>Escherichia coli</i> – Quantitray	11 Appendix 1
	Total coliforms (coliform bacteria) – MPN	11 Appendix 2
	Total coliforms (coliform bacteria), <i>Escherichia coli</i> – Quantitray	APHA 9223 B
	Total coliforms (coliform bacteria) – MPN	APHA 9221 B
	Total coliforms (coliform bacteria) – MF	APHA 9222 B
	<i>Escherichia coli</i> – MPN	APHA 9221 F
	<i>Escherichia coli</i> – MF	APHA 9222 I
1.2	Faecal coliforms – MPN	11 Appendix 2
	Faecal coliforms – MPN	APHA 9221 E
	Faecal coliforms – MF	APHA 9222 D
1.3	Colony count 22 °C	11.6
1.6.1	<i>Clostridium perfringens</i> (including spores)	11.A3

Meat and Meat Products, Poultry, Petfood, Egg and Egg Product & Honey Microbiology / Parasitology

In accordance with MIMM: Microbiological Methods for the Meat Industry (5th Edition) and the following NZ Food Safety Authority (Animal Products) Schedule 1 Technical Procedures for the National Microbiological Database unless otherwise stated.

- Porcine

2.1.1	Aerobic Plate Count (APC) APC	MIMM 6 TEMPO AC
2.1.2	APC spread plate	NMD 3.21.5 with sampling NMD 3
2.1.3	APC Petrifilm	NMD 3.21.6 with sampling NMD 3

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2.1.5	APC	China OMAR
2.2.1	<i>Escherichia coli</i>	MIMM 8.4
	<i>Escherichia coli</i> (count)	TEMPO EC
2.2.2	<i>Escherichia coli</i> , Petrifilm	NMD 3.22 with sampling NMD 3
2.3	<i>Staphylococcus aureus</i>	MIMM 7.8
2.4.1	Salmonella	In-House (PCR)
2.6	<i>Listeria monocytogenes</i>	In-House (PCR)
2.9	Enterobacteriaceae	MIMM 8.2
2.14	American Foulbrood	qPCR method
	American Foulbrood	In-house method

Potable/Suitable Water – Physico-Chemical Parameters

In accordance with APHA Standards Methods for the Examination of Water and Wastewater (Online Edition) unless otherwise stated.

5.01	Colour	2120 C (modified)
5.02	Conductivity	2510 B
5.03	pH (hydrogen ion concentration)	4500-H B (modified)
5.04	Turbidity	2130 B (modified)
5.10	Ammoniacal nitrogen (ammonium)	4500-NH ₃ F (modified, discrete analyser)
	Ammoniacal nitrogen (ammonium)	4500-NH ₃ H (modified)
5.11	Chloride	4110 B (modified)
5.12	Fluoride	4500-F C
	Fluoride	4110 B
5.13	Nitrate	4500-NO ₃ I (modified)
	Nitrate	4110 B
5.14	Nitrite	4500-NO ₃ I (modified)
	Nitrite	4110 B
5.16	Sulphate	4110 B
5.17	Aluminium	3125 B
5.18	Arsenic	3125 B
5.19	Boron	3125 B
5.20	Cadmium	3125 B
5.22	Chromium	3125 B
5.23	Copper	3125 B

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5.24	Cyanide Cyanide Cyanide Cyanide Cyanide	4500-CN C (modified) 4500-CN E (modified, discrete analyser) 4500-CN I (modified) 4500-CN N (modified) ISO 14403:2012(e)
5.25	Iron Iron	3120 B 3125 B
5.26	Lead	3125 B
5.28	Manganese	3125 B
5.29	Mercury Mercury	USEPA 245.7 (CVAF) 3125 B
5.31	Sodium Sodium	3120 B 3125 B
5.32	Selenium	3125 B
5.35	Polynuclear aromatic hydrocarbons (PAH)	EPA 8270; GC-MSD and GC-MS/MS
5.36.1	Acid herbicides <ul style="list-style-type: none"> • 2,4,5-T • 2,4-D • 2,4-DB • Dichlorprop • Fenoprop • MCPA • Mecoprop • Pentachlorophenol • Picloram • Triclopyr 	In-house by LC-MS/MS
5.36.2	Chlortoluron, diuron, thiabendazole	In-house by GC-MSD
5.36.3	Semi Volatile Organic Compounds (SVOC) <ul style="list-style-type: none"> • Alachlor • Aldicarb • Aldrin + dieldrin • Aldrin + dieldrin • Atrazine • Azinphos methyl • Benzo(a)pyrene • Benzo(a)pyrene • Bromacil • Carbofuran • Chlordane • Chlordane 	EPA 8270; GC-MSD (unless otherwise stated) In-house by LC-MS/MS In-house by GC-MS/MS In-house by GC-MS/MS In-house by GC-MS/MS

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<ul style="list-style-type: none"> • Chlorpyrifos • Cyanazine • DDT + isomers • DDT + isomers • Dimethoate • Endrin • Endrin • Heptachlor + heptachlor epoxide • Heptachlor + heptachlor epoxide • Hexachlorobenzene • Hexachlorobenzene • Hexazinone • Isoproturon • Lindane • Lindane • Metolachlor • Metalaxyl • Methoxychlor • Methoxychlor • Metribuzin • Molinate • Oryzalin • Oxadiazon • Pendimethalin • Pirimiphos-methyl • Pyriproxifen • Primisulfuron-methyl • Procymidone • Propazine • Simazine • Terbacil • Terbutylazine • Trifluralin 	<p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by LC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by GC-MS/MS</p> <p>In-house by LC-MS/MS</p> <p>In-house by LC-MS/MS</p> <p>In-house by LC-MS/MS</p> <p>In-house by LC-MS/MS</p>
<p>5.39 Volatile Organic Compounds (VOC)</p> <ul style="list-style-type: none"> • Benzene • 1,2-dichloroethane • Tetrachloroethane and trichloroethane • Vinyl chloride • 1,2-dibromo-3-chloropropane • 1,2-dibromoethane • 1,2-dichloropropane • 1,3-dichloropropene, cis 	<p>In-house based on USEPA 8260, 5021 by GC-MS</p>

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- 1,3-dichloropropene, trans

5.40	Trihalomethanes	In-house based on USEPA 8260, 5021 by GC-MS
5.42	Total Organic Carbon (TOC)	5310 C (modified)
5.43	Acrylamide	In-house by LC-MS/MS
5.44	Antimony	ICP-MS
5.45	Bromate	USEPA 300.1
5.46	Nickel	ICP-MS

Animal Products – Chemical Residue Testing (NCRP, NCCP & OMAR)

8.20	Heavy metals & chemical elements	APHA 3030 Fa / 3125 B (ICP-MS)
8.40	Paradichlorobenzene (PDB)	In-house by SPME GC-MS
8.42	Tutin (honey)	In-house by LC-MS/MS
8.47.1	Glyphosate, including AMPA (honey)	In-house by LC-MS/MS

Honey

10.02	Moisture	International Honey Commission Method 1 (modified)
10.04	<i>Leptospermum scoparium</i> DNA <i>Leptospermum scoparium</i> DNA (modified)	PCR as per MPI Technical Paper 2017/31 PCR as per MPI Technical Paper 2017/31
10.05	Four chemical characterisation compounds	MPI Technical Paper No.: 2017/30 (modified)
•	2-Methoxyacetophenone (2'-MAP)	
•	2-Methoxybenzoic acid (2-MBA)	
•	3-Phenyllactic acid (3-PA)	
•	4-Hydroxyphenyllactic acid (4-HPA)	

Seafood Products and Potable/Suitable Water

In accordance with APHA Compendium of Methods for the Microbiological Examination of Foods (5th Edition) unless where otherwise stated.

11.1.1	Faecal coliforms – MPN Faecal coliforms – MPN Faecal coliforms – MF	MIMM 11 Appendix 2 APHA 9221 E APHA 9222 D
11.1.2	Total coliforms (coliform bacteria)	11 Appendix 1

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	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	11 Appendix 2
	Total coliforms (coliform bacteria)	APHA 9223 B
	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	APHA 9221 B
	Total coliforms (coliform bacteria) – MF	APHA 9222 B
	<i>Escherichia coli</i> – MPN	APHA 9221 F
	<i>Escherichia coli</i> – MF	APHA 9222 I
11.2.1	Faecal coliforms – MPN	MIMM 11 Appendix 2
	Faecal coliforms – MPN	APHA 9221 E
	Faecal coliforms – MF	APHA 9222 D
11.2.3	Total coliforms (coliform bacteria)	11 Appendix 1
	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	11 Appendix 2
	Total coliforms (coliform bacteria)	APHA 9223 B
	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	APHA 9221 B
	Total coliforms (coliform bacteria) – MF	APHA 9222 B
	<i>Escherichia coli</i> – MPN	APHA 9221 F
	<i>Escherichia coli</i> – MF	APHA 9222 I
11.3.1	Faecal coliforms – MPN	MIMM 11 Appendix 2
	Faecal coliforms – MPN	APHA 9221 E
	Faecal coliforms – MF	APHA 9222 D
11.3.3	Total coliforms (coliform bacteria),	11 Appendix 1
	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	11 Appendix 2
	Total coliforms (coliform bacteria)	APHA 9223 B
	<i>Escherichia coli</i> – Quantitray	
	Total coliforms (coliform bacteria) – MPN	APHA 9221 B
	Total coliforms (coliform bacteria) – MF	APHA 9222 B
	<i>Escherichia coli</i> – MPN	APHA 9221 F
	<i>Escherichia coli</i> – MF	APHA 9222 I
11.4.1	Total coliforms (coliform bacteria)	MIMM 11 Appendix 1
	<i>Escherichia coli</i> - Quantitray	
	Total coliforms (coliform bacteria) – MPN	MIMM 11 Appendix 2
	Total coliforms (coliform bacteria) – Quantitray	APHA 9223 B
	Total coliforms (coliform bacteria) – MPN	APHA 9221 B
	Total coliforms (coliform bacteria) – MF	APHA 9222 B
	<i>Escherichia coli</i> – Quantitray	APHA 9223 B
	<i>Escherichia coli</i> – MPN	APHA 9221 F
	<i>Escherichia coli</i> – MPN (TBX)	APHA 9221 F (modified)
	<i>Escherichia coli</i> – MF	APHA 9222 G
11.5.3	APC	APHA Ch. 8.72 (Pour plate)
	APC	APHA Ch. 8.73 (Spread plate)

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	APC	APHA Ch. 8.82 (Petrifilm)
	APC (count)	TEMPO AC
11.5.4	<i>Staphylococcus aureus</i>	APHA Ch. 39.6
	<i>Staphylococcus aureus</i> (count)	TEMPO STA
11.5.7	Heavy metals	APHA 3030 Fa / 3125 B (ICP-MS)
11.5.10	<i>Escherichia coli</i>	APHA Ch. 9.93
	<i>Escherichia coli</i> (count)	TEMPO EC
11.5.11	Salmonella	In-house (PCR)
11.6.2	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.6.6	Heavy metals	APHA 3030 Fa / 3125 B (ICP-MS)
11.6.7	APC	APHA Ch. 8.72 (Pour plate)
	APC	APHA Ch. 8.73 (Spread plate)
	APC	APHA Ch. 8.82 (Petrifilm)
	APC (count)	TEMPO AC
11.6.8	<i>Staphylococcus aureus</i> (count)	TEMPO STA
11.8.1	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.8.2	Salmonella	In-house (PCR)
11.8.5	<i>Listeria monocytogenes</i>	In-house (PCR)
	<i>Listeria monocytogenes</i>	ISO 11290-2:2017
11.8.6	APC	APHA Ch. 8.72 (Pour plate)
	APC	APHA Ch. 8.73 (Spread plate)
	APC	APHA Ch. 8.82 (Petrifilm)
	APC (count)	TEMPO AC

Dairy Products – Microbiology

(milk, infant formula power, butter, caseins, milk powders, cheese)

31.1	APC (count)	TEMPO AC
31.2	<i>Bacillus cereus</i> (count)	TEMPO BC
31.6	Coliforms (count)	TEMPO CC
31.7	<i>Escherichia coli</i> (count)	TEMPO EC
31.8	Enterobacteriaceae (count)	TEMPO EB
31.10	<i>Listeria monocytogenes</i>	In-house (PCR)
31.12	Salmonella (detection)	In-house (PCR)

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31.14	<i>Staphylococcus aureus</i> (count) (Staphylococcus, coagulase positive)	TEMPO STA
31.16	Yeasts and Moulds (count) Yeasts and Moulds	TEMPO YM APHA 5 th Edition – Chapter 21.51 (modified)
31.17	<i>Cronobacter</i> spp. (including <i>Cronobacter sakazakii</i>)	In-house (PCR)

Dairy Products – Composition
(includes standards of identity, vitamins, minerals & other nutrients)

(milk, cream, milk powders, butter, other fat products, cheese, casein and caseinates, whey products, cultured products, frozen confectionery, dairy foods, Ice cream, rennet, alamin)

32.9	Minerals: Sodium, Potassium	ICP-OES
32.12	Calcium	ICP-OES

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