



RJ Hill Laboratories Ltd (Hill Labs)
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: Recognised Laboratories
Animal Products Regulations 2021

Laboratory Services Summary

Microbiological testing
Chemical testing
MPI Monitoring and Surveillance

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Microbiological testing

Potable water for the meat, poultry, egg and honey industries

In accordance with MIMM: Microbiological Methods for the Meat Industry (5th Edition), except where otherwise indicated.

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

Microbiological and Parasitology testing

Meat and meat products, poultry, eggs and environment samples, all seafood, tallows fats and oils, pet food and animal feeds, blood and blood products

In accordance with MIMM: Microbiological Methods for the Meat Industry (5th Edition) and the following Ministry for Primary Industries Animal Products Notice: National Microbiological Database Programme, except where otherwise indicated.

- Porcine
- Bovine, Ovine, Bobby Calves
- Caprine
- Cervine

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
2.1.5	APC	China OMAR
2.2.1	<i>Escherichia coli</i> Petrifilm <i>Escherichia coli</i> (count) Petrifilm	MIMM 8.4 TEMPO EC
2.2.2	<i>Escherichia coli</i> Petrifilm	NMD 3.22 with sampling NMD 3

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2.3	<i>Staphylococcus aureus</i>	MIMM 7.8
2.4.1	Salmonella	In-House (PCR)
2.4.2	Salmonella	ISO 6579-1:2017/Amendment 1:2020
2.4.3	Salmonella	NMD 3.23 with sampling NMD 3
2.6	<i>Listeria monocytogenes</i>	In-House (PCR)
2.9	Enterobacteriaceae	MIMM 8.2
23.1	<i>Escherichia coli</i> O157	US OMAR, Assurance GDS
23.3	Top 7 Shiga Toxin-producing <i>Escherichia coli</i>	US OMAR
23.4	Top 7 Shiga Toxin-producing <i>Escherichia coli</i> confirmation	US OMAR
• Poultry		
2.4.3	Salmonella	NMD 4.14 with sampling NMD 4
22.1	Campylobacter	NMD 4.13 with sampling NMD 4

Microbiological testing

Seafood Products and Potable/Suitable Water

In accordance with APHA Standards Methods for the Examination of Water and Wastewater (Online Edition), except where otherwise indicated.

11.2.1	Faecal coliforms – MPN Faecal coliforms – MPN	MIMM 11 Appendix 2 9221 E
11.2.3	Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i>	MIMM 11 Appendix 1 MIMM 11 Appendix 2 9223 B 9221 B 9222 B 9221 F
11.3.1	Faecal coliforms – MPN Faecal coliforms – MPN	MIMM 11 Appendix 2 9221 E
11.3.3	Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i> Total coliforms (coliform bacteria), <i>Escherichia coli</i>	MIMM 11 Appendix 1 MIMM 11 Appendix 2 9223 B 9221 B 9222 B 9221 F

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11.4.1	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	MIMM 11 Appendix 1
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	MIMM 11 Appendix 2
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9223 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9221 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9222 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9223 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9221 F
11.5.3	APC	APHA Comp. Ch. 8.72 (Pour plate)
	APC	APHA Comp. Ch. 8.73 (Spread plate)
	APC	APHA Comp. Ch. 8.82 (Petrifilm)
	APC (count)	TEMPO AC
11.5.10	<i>Escherichia coli</i>	APHA Comp. Ch. 9.93
	<i>Escherichia coli</i> (count)	TEMPO EC
11.5.11	Salmonella	In-house (PCR)
11.5.12	<i>Vibrio cholerae</i>	In-House (PCR)
11.6.2	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.6.3	Salmonella	ISO 6579-1:2017/Amendment 1:2020
11.6.7	APC	APHA Comp. Ch. 8.72 (Pour plate)
	APC	APHA Comp. Ch. 8.73 (Spread plate)
	APC	APHA Comp. Ch. 8.82 (Petrifilm)
	APC (count)	TEMPO AC
11.6.9	<i>Vibrio cholerae</i>	In-House (PCR)
11.8.1	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.8.2	Salmonella (Fishery products)	In-house (PCR)
	Salmonella (Frozen and cooked crustaceans)	ISO 6579-1:2017/Amendment 1:2020
11.8.5	<i>Listeria monocytogenes</i>	In-house (PCR)
	<i>Listeria monocytogenes</i>	ISO 11290-2:2017
11.8.6	APC	APHA Comp. Ch. 8.72 (Pour plate)
	APC	APHA Comp. Ch. 8.73 (Spread plate)
	APC	APHA Comp. Ch. 8.82 (Petrifilm)
	APC	TEMPO AC

Honey and bee products

2.14	American Foulbrood	qPCR method
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Infant formula and foods for special medical needs

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31.10	<i>Listeria monocytogenes</i>	In-house (PCR)
31.12	Salmonella (detection)	In-house (PCR)
31.17	<i>Cronobacter</i> spp. (including <i>Cronobacter sakazakii</i>)	In-house (PCR)

Dairy products

(raw milk, milk, butter, caseins, milk powders, cheese)

30.5	APC	TEMPO AC
30.6	Coliforms (total)	TEMPO TC
31.1	APC	TEMPO AC
31.2	<i>Bacillus cereus</i> (count)	TEMPO BC
31.6	Coliforms (count) Coliforms (count)	TEMPO CC TEMPO TC
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)
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)

Chemical testing

Honey & bee products

10.04	<i>Leptospermum scoparium</i> DNA	PCR as per MPI Technical Paper 2017/31 (modified)
10.05	Four chemical characterisation compounds <ul style="list-style-type: none"> • 2-Methoxyacetophenone (2'-MAP) • 2-Methoxybenzoic acid (2-MBA) • 3-Phenyllactic acid (3-PA) • 4-Hydroxyphenyllactic acid (4-HPA) 	MPI Technical Paper No.: 2017/30 (modified)

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Seafood & seawater

- 11.5.7 Heavy metals 3030 Fa / 3125 B (ICP-MS)
- 11.6.6 Heavy metals 3030 Fa / 3125 B (ICP-MS)

Potable water for meat and game premises

In accordance with APHA Standards Methods for the Examination of Water and Wastewater (Online Edition), except where otherwise indicated.

- 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-NH₃ F (modified, discrete analyser)
- Ammoniacal nitrogen (ammonium) 4500-NH₃ H (modified)
- 5.11 Chloride 4110 B (modified)
- 5.12 Fluoride 4500-F C
- Fluoride 4110 B
- 5.13 Nitrate 4500-NO₃ I (modified)
- Nitrate 4110 B
- 5.14 Nitrite 4500-NO₃ 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
- 5.24 Cyanide 4500-CN C (modified)
- Cyanide 4500-CN E (modified, discrete analyser)
- Cyanide 4500-CN I (modified)
- Cyanide 4500-CN N (modified)
- Cyanide ISO 14403:2012
- 5.25 Iron 3120 B

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	Iron	3125 B
5.26	Lead	3125 B
5.28	Manganese	3125 B
5.29	Mercury	USEPA 245.7 (CVAF)
	Mercury	3125 B
5.31	Sodium	3120 B
	Sodium	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	In-house by LC-MS/MS
	<ul style="list-style-type: none"> • 2,4,5-T • 2,4-D • 2,4-DB • Dichlorprop • Fenoprop • MCPA • Mecoprop • Pentachlorophenol • Picloram • Triclopyr 	
5.36.2	Chlortoluron, Diuron, Thiabendazole	In-house by GC-MSD
5.36.3	Semi Volatile Organic Compounds (SVOC)	EPA 8270; GC-MSD (unless otherwise stated)
	<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 • Chlorpyrifos • Cyanazine • DDT + isomers • DDT + isomers • Dimethoate • Endrin 	<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>

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	<ul style="list-style-type: none"> • 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 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 LC-MS/MS</p> <p>In-house by LC-MS/MS</p>
5.39	Volatile Organic Compounds (VOC)	In-house based on USEPA 8260, 5021 by GC-MS
	<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 • 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

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5.44	Antimony	ICP-MS
5.45	Bromate	USEPA 300.1
5.46	Nickel	ICP-MS

MPI Monitoring and Surveillance

Testing carried out for the purposes of Part 8 of the Animal Products Regulations 2021

Mammals, birds, fish, honey and dairy – Chemical residue testing

8.20	Heavy metals & Chemical elements	APHA 3030 Fa / 3125 B (ICP-MS)
8.42	Tutin (honey)	In-house by LC-MS/MS

References:

APHA	Standard Methods for the Examination of Water and Wastewaters (Online Edition)
APHA Comp.	Compendium of Methods for the Microbiological Examination of Foods (5 th Edition)
EPA	United States Environmental Protection Agency
ISO	International Organization for Standardization
MIMM	Meat Industry Microbiological Methods (5 th Edition)
USEPA	United States Environmental Protection Agency

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