

CERTIFICATE OF ACCREDITATION



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
Physical testing
MPI Monitoring and Surveillance

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Microbiological testing

Potable water for the meat, poultry, egg & 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 – 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 & meat products, poultry, eggs & environment samples, all seafood, tallows fats & oils, pet food & animal feeds, blood & 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 and Cervine

2.1.1	Aerobic Plate Count (APC)	MIMM 6
	APC	Neogen RAC Petrifilm
	APC	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	MIMM 8.4
	<i>Escherichia coli</i> (count, direct plate)	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	CANADA 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 & 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	MIMM 11 Appendix 2
	Faecal coliforms – MPN	9221 E
11.2.3	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)	9222 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	9221 F
11.3.1	Faecal coliforms – MPN	MIMM 11 Appendix 2
	Faecal coliforms – MPN	9221 E
11.3.3	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)	9222 B
	Total coliforms (coliform bacteria), <i>Escherichia coli</i>	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)	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	Neogen RAC 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	Neogen RAC 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	Neogen RAC Petrifilm
	APC	TEMPO AC
Honey & bee products		
2.14	American Foulbrood	qPCR method

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Infant formula, foods for infants, and foods for special medicinal purposes

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, milk powders, butter, caseins, cheese, cream, ice cream, frozen confectionery, cultured products, AMF, lactose, UHT milk, dairy foods)

30.1	Somatic Cells	ISO 13366-2 / IDF 148-2:2006
30.2	Inhibitory Substances (including colostrum)	Delvo T – Standard Diffusion Test
30.5	APC APC APC (raw milk only) APC (raw milk only) APC (raw milk only) APC (raw milk only)	APHA Ch. 9.030 (modified), 18 th Edition ISO 4833-1:2013/Amd 1:2022 ISO 16297 / IDF 161:2020 Neogen AC Petrifilm (modified) Neogen RAC Petrifilm (modified) TEMPO AC
30.5.1	Bactoscan (APC estimate) (raw milk only)	ISO 16297 / IDF 161:2020
30.6	Coliform (count) Coliforms (count) (including colostrum) Coliforms (total) Coliforms (total) (raw milk only) Coliforms (total) (raw milk only)	ISO 4832:2006 ISO 4832:2006 (modified) Bio-Rad Method Neogen EC Petrifilm TEMPO TC
31.1	APC APC (including colostrum) APC (including colostrum) APC (including colostrum) APC (including colostrum)	APHA Ch. 9.030 (modified), 18 th Edition ISO 4833-1:2013/Amd 1:2022 Neogen AC Petrifilm (modified) Neogen RAC Petrifilm (modified) TEMPO AC
31.2	<i>Bacillus cereus</i> (presumptive) <i>Bacillus cereus</i> <i>Bacillus cereus</i> (count)	ISO 7932:2004/Amd 1:2020 Neogen BC Petrifilm TEMPO BC
31.6	Coliforms (count) Coliforms (count) (including colostrum) Coliforms (count) (including colostrum) Coliforms (count) (including colostrum) Coliforms (total) (including colostrum) Coliforms (MPN)	TEMPO TC ISO 4832:2006 ISO 4832:2006 (modified) Bio-Rad Method Neogen EC Petrifilm ISO 11866-1/IDF 170-1:2005 (modified)

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31.7	<i>Escherichia coli</i> (including colostrum) <i>Escherichia coli</i> (MPN) <i>Escherichia coli</i> (detection) <i>Escherichia coli</i> (count) (including colostrum) <i>Escherichia coli</i> (count) (including colostrum) <i>Escherichia coli</i> (count)	Bio-Rad Method ISO 11866-1/IDF 170-1:2005 (modified) ISO 11866-1/IDF 170-1:2005 (modified) ISO 16649-2:2001 Neogen EC Petrifilm TEMPO EC
31.8	Enterobacteriaceae (detection) Enterobacteriaceae (count) Enterobacteriaceae (count) Enterobacteriaceae (count)	ISO 21528-1:2017 ISO 21528-2:2017 Neogen EB Petrifilm TEMPO EB
31.10	<i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i> (detection) <i>Listeria monocytogenes</i> (count)	PCR (In-house) ISO 11290-1:2017 ISO 11290-2:2017
31.12	Salmonella Salmonella (detection)	ISO 6579-1:2017/Amd 1:2020 PCR (In-house)
31.14	<i>Staphylococcus aureus</i> (<i>Staphylococcus</i> , coagulase positive) <i>Staphylococcus aureus</i> (<i>Staphylococcus</i> , coagulase positive) <i>Staphylococcus aureus</i> (count) (<i>Staphylococcus</i> , coagulase positive)	ISO 6888-1:2021/Amd 1:2023 Neogen STX Petrifilm TEMPO STA
31.16	Yeasts and moulds (butter only) Yeasts and moulds (butter only) Yeasts and moulds (butter only) Yeasts and moulds (count) (butter only)	ISO 6611/IDF 94:2004 Neogen RYM Petrifilm APHA 5 th Edition – Chapter 21.51 (modified) TEMPO YM

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 <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)


**Dairy products
 (raw milk)**

- 32.33 Immunoglobulin (IgG) In-house (HPLC)

Potable water for meat & 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) In-house (FIALab)
- 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

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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
5.25	Iron	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	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 • Chlorpyriphos • Cyanazine 	<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>

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- DDT + isomers
- DDT + isomers In-house by GC-MS/MS
- Dimethoate
- Endrin
- Endrin In-house by GC-MS/MS
- Heptachlor + heptachlor epoxide
- Heptachlor + heptachlor epoxide In-house by GC-MS/MS
- Hexachlorobenzene
- Hexachlorobenzene In-house by GC-MS/MS
- Hexazinone
- Isoproturon In-house by LC-MS/MS
- Lindane
- Lindane In-house by GC-MS/MS
- Metolachlor
- Metalaxyl
- Methoxychlor
- Methoxychlor In-house by GC-MS/MS
- Metribuzin
- Molinate
- Oryzalin In-house by LC-MS/MS
- Oxadiazon
- Pendimethalin
- Pirimiphos-methyl
- Pyriproxifen
- Primisulfuron-methyl In-house by LC-MS/MS
- Procymidone
- Propazine
- Simazine
- Terbacil
- Terbutylazine
- Trifluralin

5.39 Volatile Organic Compounds (VOC) In-house based on USEPA 8260, 5021 by GC-MS

- 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

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		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

Physical testing

**Dairy products
 (raw milk)**

30.3	Freezing point depression (MilkoScan)	ISO 9622 / IDF 141:2013
	Freezing point depression (Cryoscope)	ISO 5764 / IDF 108:2009
30.8	Foreign matter	In-house based on APHA 19.022

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
8.47.1	Glyphosate, including AMPA (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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