

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

Operations Manager
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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 (coliform bacteria) / <i>Escherichia coli</i> – Quantitray	11 Appendix 1
	Total Coliforms (coliform bacteria) / <i>Escherichia coli</i> – MPN	11 Appendix 2
	Total Coliforms (coliform bacteria) / <i>Escherichia coli</i> – Quantitray	APHA 9223 B
	Total Coliforms (coliform bacteria) / <i>Escherichia coli</i> – MPN	APHA 9221 B
	Total Coliforms (coliform bacteria) - MF	APHA 9222 B
	Total Coliforms (coliform bacteria) / <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
	Aerobic Plate Count (APC)	Neogen RAC Petrifilm
	Aerobic Plate Count (APC)	TEMPO AC
2.1.2	Aerobic Plate Count (APC) spread plate	NMD 3.21.5 with sampling NMD 3
2.1.3	Aerobic Plate Count (APC) Petrifilm	NMD 3.21.6 with sampling NMD 3

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2.1.5	Aerobic Plate Count (APC)	China OMAR
2.2.1	<i>Escherichia coli</i> , Petrifilm	MIMM 8.4
	<i>Escherichia coli</i> , direct plate (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	<i>Salmonella</i>	In-House (PCR)
2.4.2	<i>Salmonella</i>	ISO 6579-1:2017/Amendment 1:2020
2.4.3	<i>Salmonella</i>	NMD 3.23 with sampling NMD 3
2.6	<i>Listeria monocytogenes</i>	In-House (PCR)
2.9	<i>Enterobacteriaceae</i>	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	<i>Salmonella</i>	NMD 4.14 with sampling NMD 4
22.1	<i>Campylobacter</i>	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

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	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
11.4.1	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	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.72 (Pour plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.73 (Spread plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.82 (Petrifilm)
	Aerobic Plate Count (APC)	Neogen RAC Petrifilm
	Aerobic Plate Count (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	<i>Salmonella</i>	In-house (PCR)
11.5.12	<i>Vibrio cholerae</i>	In-house (PCR)
11.6.2	<i>Escherichia coli</i>	Enumeration of <i>Escherichia coli</i> in Molluscan Bivalve Shellfish, MPI method
11.6.3	<i>Salmonella</i>	ISO 6579-1:2017/Amendment 1:2020
11.6.7	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.72 (Pour plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.73 (Spread plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.82 (Petrifilm)
	Aerobic Plate Count (APC)	Neogen RAC Petrifilm
	Aerobic Plate Count (APC) (count)	TEMPO AC
11.6.9	<i>Vibrio cholerae</i>	In-house (PCR)
11.8.1	<i>Escherichia coli</i>	Enumeration of <i>Escherichia coli</i> in Molluscan Bivalve Shellfish, MPI method
11.8.2	<i>Salmonella</i> (Fishery products)	In-house (PCR)
	<i>Salmonella</i> (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	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.72 (Pour plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.73 (Spread plate)
	Aerobic Plate Count (APC)	APHA Comp. Ch. 8.82 (Petrifilm)
	Aerobic Plate Count (APC)	Neogen RAC Petrifilm
	Aerobic Plate Count (APC)	TEMPO AC

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Honey & bee products

2.14 American Foulbrood qPCR method

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

31.10 *Listeria monocytogenes* In-house (PCR)

31.12 *Salmonella* (detection) In-house (PCR)

31.17 *Cronobacter* spp.
(including *Cronobacter sakazakii*) 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

30.5 Aerobic Plate Count (APC) APHA Ch. 9.030 (modified), 18th Edition
Aerobic Plate Count (APC) ISO 4833-1:2013/Amd 1:2022
Aerobic Plate Count (APC) (raw milk only) ISO 16297 / IDF 161:2020
Aerobic Plate Count (APC) (raw milk only) Neogen AC Petrifilm (modified)
Aerobic Plate Count (APC) (raw milk only) Neogen RAC Petrifilm (modified)
Aerobic Plate Count (APC) (raw milk only) TEMPO AC

30.5.1 Bactoscan (APC estimate) (raw milk only) ISO 16297 / IDF 161:2020

30.6 Coliform (count) ISO 4832:2006
Coliforms (count) (including colostrum) ISO 4832:2006 (modified)
Coliforms (total) Bio-Rad Method
Coliforms (total) (raw milk only) Neogen EC Petrifilm
Coliforms (total) (raw milk only) TEMPO TC

31.1 Aerobic Plate Count (APC) APHA Ch. 9.030 (modified), 18th Edition
Aerobic Plate Count (APC) (including colostrum) ISO 4833-1:2013/Amd 1:2022
Aerobic Plate Count (APC) (including colostrum) Neogen AC Petrifilm (modified)
Aerobic Plate Count (APC) (including colostrum) Neogen RAC Petrifilm (modified)
Aerobic Plate Count (APC) (including colostrum) TEMPO AC

31.2 *Bacillus cereus* (presumptive) ISO 7932:2004/Amd 1:2020
Bacillus cereus Neogen BC Petrifilm
Bacillus cereus (count) TEMPO BC

31.6 Coliforms (count) TEMPO TC
Coliforms (count) (including colostrum) ISO 4832:2006
Coliforms (count) (including colostrum) ISO 4832:2006 (modified)

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

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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)

30.2	Inhibitory Substances (including colostrum)	Delvo T – Standard Diffusion Test
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-NH ₃ F (modified, discrete analyser)
	Ammoniacal nitrogen (ammonium)	In-house (FIALab)
	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

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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	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	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
	• 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)
	• Alachlor	
	• Aldicarb	In-house by LC-MS/MS
	• Aldrin + dieldrin	
	• Aldrin + dieldrin	In-house by GC-MS/MS
	• Atrazine	
	• Azinphos methyl	
	• Benzo(a)pyrene	
	• Benzo(a)pyrene	In-house by GC-MS/MS

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- Bromacil
- Carbofuran
- Chlordane
- Chlordane
- 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

In-house by GC-MS/MS

In-house by GC-MS/MS

In-house by GC-MS/MS

In-house by GC-MS/MS

In-house by GC-MS/MS

In-house by LC-MS/MS

In-house by GC-MS/MS

In-house by GC-MS/MS

In-house by LC-MS/MS

In-house by LC-MS/MS

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

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- 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
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

Accreditation for MPI Monitoring and Surveillance allows for accredited tests included on the following scope of accreditation to be used for testing as per Monitoring and Surveillance contracts with MPI:

Programme	Accreditation Number
Chemical Testing Laboratory	365

All testing performed for the purpose of MPI Monitoring and Surveillance must meet the requirements of the current version of the Animal Products Notices: Recognised Laboratories.

References:

APHA	Standard Methods for the Examination of Water and Wastewaters (Online Edition)
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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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A handwritten signature in black ink, appearing to read 'A. H. H. H.', is written over a light blue background.

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