Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

RJ Hill Laboratories Ltd (Hill Labs) **Client Number** 590
Hamilton

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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

IANZ; Building 7, Central Park, 660-670 Great South Road, Ellerslie, Auckland 1051
Private Bag 28908, Remuera, Auckland 1541
Tel 09-525 6655 info@ianz.govt.nz ***ianz.govt.nz***

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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) / *Escherichia coli* – Quantitray	11 Appendix 1
	Total Coliforms (coliform bacteria) / *Escherichia coli* – MPN	11 Appendix 2
	Total Coliforms (coliform bacteria) / *Escherichia coli* – Quantitray	APHA 9223 B
	Total Coliforms (coliform bacteria) / *Escherichia coli* – MPN	APHA 9221 B
	Total Coliforms (coliform bacteria) - MF	APHA 9222 B
	Total Coliforms (coliform bacteria) / *Escherichia coli* – 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	*Clostridium perfringens* (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	*Escherichia coli,* Petrifilm *Escherichia coli,* direct plate (count)	MIMM 8.4 TEMPO EC
2.2.2	*Escherichia coli,* Petrifilm	NMD 3.22 with sampling NMD 3
2.3	*Staphylococcus aureus*	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	*Listeria monocytogenes*	In-House (PCR)
2.9	*Enterobacteriaceae*	MIMM 8.2
23.1	*Escherichia coli* O157	CANADA OMAR, Assurance GDS
23.3	Top 7 Shiga Toxin-producing *Escherichia coli*	US OMAR
23.4	Top 7 Shiga Toxin-producing *Escherichia coli* 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 Faecal Coliforms – MPN	MIMM 11 Appendix 2 9221 E
11.2.3	Total Coliforms (coliform bacteria), *Escherichia coli* Total Coliforms (coliform bacteria), *Escherichia coli* Total Coliforms (coliform bacteria), *Escherichia coli* Total Coliforms (coliform bacteria), *Escherichia coli* Total Coliforms (coliform bacteria) Total Coliforms (coliform bacteria), *Escherichia coli*	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), *Escherichia coli*	MIMM 11 Appendix 1

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	Total Coliforms (coliform bacteria), *Escherichia coli*	MIMM 11 Appendix 2
	Total Coliforms (coliform bacteria), *Escherichia coli*	9223 B
	Total Coliforms (coliform bacteria), *Escherichia coli*	9221 B
	Total Coliforms (coliform bacteria)	9222 B
	Total Coliforms (coliform bacteria), *Escherichia coli*	9221 F
11.4.1	Total Coliforms (coliform bacteria), *Escherichia coli*	MIMM 11 Appendix 1
	Total Coliforms (coliform bacteria), *Escherichia coli*	MIMM 11 Appendix 2
	Total Coliforms (coliform bacteria), *Escherichia coli*	9223 B
	Total Coliforms (coliform bacteria), *Escherichia coli*	9221 B
	Total Coliforms (coliform bacteria)	9222 B
	Total Coliforms (coliform bacteria), *Escherichia coli*	9223 B
	Total Coliforms (coliform bacteria), *Escherichia coli*	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	*Escherichia coli*	APHA Comp. Ch. 9.93
	Escherichia coli (count)	TEMPO EC
11.5.11	*Salmonella*	In-house (PCR)
11.5.12	*Vibrio cholerae*	In-house (PCR)
11.6.2	*Escherichia coli*	Enumeration of *Escherichia coli* in Molluscan Bivalve Shellfish, MPI method
11.6.3	*Salmonella*	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	*Vibrio cholerae*	In-house (PCR)
11.8.1	*Escherichia coli*	Enumeration of *Escherichia coli* 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	*Listeria monocytogenes*	In-house (PCR)
	Listeria monocytogenes	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 Petrifim (modified)
	Aerobic Plate Count (APC) (including colostrum)	Neogen RAC Petrifim (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) Coliforms (total) (including colostrum) Coliforms (MPN)	Bio-Rad Method Neogen EC Petrifilm ISO 11866-1/IDF 170-1:2005 (modified)
31.7	*Escherichia coli* (including colostrum) *Escherichia coli* (MPN) *Escherichia coli* (detection) *Escherichia coli* (count) (including colostrum) *Escherichia coli* (count) (including colostrum) *Escherichia coli* (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	*Listeria monocytogenes* *Listeria monocytogenes* (detection) *Listeria monocytogenes* (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	*Staphylococcus aureus* (*Staphylococcus*, coagulase positive) *Staphylococcus aureus* (*Staphylococcus*, coagulase positive) *Staphylococcus aureus* (count) (*Staphylococcus*, 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 5th Edition – Chapter 21.51 (modified) TEMPO YM

Chemical testing

Honey & bee products

8.47.1	Glyphosate, including AMPA	In-house LC-MS/MS
10.04	*Leptospermum scoparium* DNA	PCR as per MPI Technical Paper 2017/31 (modified)
10.05	Four Chemical Characterisation • 2-Methoxyacetophenone (2'-MAP) • 2-Methoxybenzoic acid (2-MBA) • 3-Phenyllactic acid (3-PA)	MPI Technical Paper No.: 2017/30 (modified)

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- 4-Hydroxyphenyllactic acid (4-HPA)

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) Ammoniacal nitrogen (ammonium) Ammoniacal nitrogen (ammonium)	4500-NH_3 F (modified, discrete analyser) In-house (FIAlab) 4500-NH_3 H (modified)
5.11	Chloride	4110 B (modified)
5.12	Fluoride Fluoride	4500-F C 4110 B
5.13	Nitrate Nitrate	4500-NO_3 I (modified) 4110 B
5.14	Nitrite Nitrite	4500-NO_3 I (modified) 4110 B
5.16	Sulphate	4110 B
5.17	Aluminium	3125 B
5.18	Arsenic	3125 B
5.19	Boron	3125 B

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5.20	Cadmium	3125 B
5.22	Chromium	3125 B
5.23	Copper	3125 B
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 • 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) • Alachlor • Aldicarb • Aldrin + dieldrin • Aldrin + dieldrin • Atrazine • Azinphos methyl • Benzo(a)pyrene • Benzo(a)pyrene • Bromacil • Carbofuran	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

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	• Chlordane	
	• Chlordane	In-house by GC-MS/MS
	• Chlorpyriphos	
	• Cyanazine	
	• 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	
	• Terbuthylazine	
	• 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	

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- 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) Freezing point depression (Cryoscope)	ISO 9622 / IDF 141:2013 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 is limited to the tests included within the identified sections of the corresponding Chemical and/or Biological accreditation scope.

Programme	**Accreditation Number**	**Applicable scope section**
Chemical Testing Laboratory	365	**Food and Bioanalytical 2.31** Foods

References:

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

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