



RJ Hill Laboratories Ltd (Hill Labs)
Hamilton

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Programme
Biological Testing Laboratory

Accreditation Number 1287

Initial Accreditation Date 16 November 2017

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Drugs and Pharmaceuticals

1.03 Drugs and Pharmaceuticals

Foods

1.11 Foods

1.13 Cosmetics, Perfumes and Essential Oils

1.71 Biological Condition

Waters

1.12 Waters


Molecular Biology

1.03 Drugs and Pharmaceuticals

1.11 Foods

1.62 Molecular Biology

1.71 Biological Condition

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Drugs and Pharmaceuticals

1.03 Drugs and Pharmaceuticals

(a) Microbiological quality (including sterility) (Cannabis)

Aerobic plate count	APHA 8.82 (modified)
Aerobic plate count	European Pharmacopoeia (Modified)
Bile Tolerant Gram Negative Bacteria	European Pharmacopoeia (Modified)
<i>E. coli</i>	European Pharmacopoeia (Modified)
<i>Pseudomonas aeruginosa</i>	European Pharmacopoeia (Modified)
Salmonella	European Pharmacopoeia (Modified)
Yeast & Mould (count)	APHA 21.51 (Modified)
Yeast & Mould (count)	European Pharmacopoeia (Modified)

Foods

1.11 Foods

- (a) Cereals and cereal products**
- (b) Edible oils, fats and derived products**
- (c) Nuts, fruits, vegetables and derived products**
- (d) Sauces, herbs, spices and condiments**
- (e) Sugar and sugar confectionery**
- (f) Dairy products**
- (g) Meat, poultry and derived products**
- (h) Fish and fish products**
- (i) Eggs and egg products**
- (k) Non-alcoholic beverages**
- (p) Canned foods**
- (q) Animal feeds**

The following tests are in accordance with APHA Compendium for the Microbiological Examination of Foods (5th Edition) methods unless were otherwise stated:

Aerobic Plate Count	6.523, 8.72
Aerobic Plate Count	6.524, 8.73
Aerobic Plate Count	8.82
Aerobic Plate Count (pour plate)	MIMM 6
Aerobic Plate Count (spread plate)	MIMM 6
Aerobic Plate Count – Petrifilm	MIMM 6
Aerobic Plate Count	Neogen RAC Petrifilm
Aerobic Plate Count	TEMPO AC

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<i>Bacillus cereus</i>	31
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Bacillus cereus</i> (count)	TEMPO BC
Campylobacter (confirmation)	MIMM 7.3
Coliform (total)	TEMPO TC
<i>E. coli</i> (count)	TEMPO EC
<i>E. coli</i> – Petrifilm	9.935
<i>E. coli</i> – Petrifilm	MIMM 8.4
<i>E. coli</i> – MPN	9.93
Enterobacteriaceae	MIMM 8.2
Enterobacteriaceae	9.62 (modified)
Enterobacteriaceae	9.63 (modified)
Enterobacteriaceae (count)	TEMPO EB
Faecal Coliforms – MPN	9.81
Faecal Coliforms – MPN	9.81 (modified)
<i>Listeria</i> spp. (count)	ISO 11290-2 (2017)
Mould	21.51
Presumptive Coliforms – MPN	9.71
<i>Staphylococcus aureus</i>	39.6
<i>Staphylococcus aureus</i>	MIMM 7.8
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Total Coliforms – MPN	9.72
Total Coliforms – Petrifilm	9.935
Yeast & Mould	21.51
Yeast & Mould	21.52
Yeast & Mould	21.51 (modified)
Yeast & Mould	Neogen RYM Petrifilm
Yeast & Mould (count)	TEMPO YM

(c) Nuts, fruits, vegetables and derived products

Aciduric Plate Count	58.5 & 8.73
Anaerobic Plate Count	6.7 & 8.73
Lactic Acid Bacteria	Neogen Petrifilm
Osmophilic Fungi (count)	17.3

(f) Dairy products

Aerobic Plate Count	ISO 4833-1:2013/Amd 1:2022
Aerobic Plate Count	Neogen AC Petrifilm (modified)
Aerobic Plate Count	Neogen RAC Petrifilm (modified)
<i>Bacillus cereus</i> (presumptive)	ISO 7932:2004/Amd 1:2020
Coliform – MPN (count)	ISO 4832:2006
Coliform	Neogen EC Petrifilm
Coliform – MPN	ISO 11866-1/IDF 170-1:2005 (modified)
<i>Escherichia coli</i> – MPN	ISO 11866-1/IDF 170-1:2005 (modified)

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<i>Escherichia coli</i> (count)	ISO 16649-2:2001
<i>Escherichia coli</i>	Neogen EC Petrifilm
Enterobacteriaceae (detection)	ISO 21528-1:2017
Enterobacteriaceae (count)	ISO 21528-2:2017
Enterobacteriaceae (count)	Neogen EB Petrifilm
<i>Listeria monocytogenes</i> (detection)	ISO 11290-1:2017
<i>Listeria monocytogenes</i> (count)	ISO 11290-2:2017
<i>Listeria</i> spp. (count)	ISO 11290-2:2017
<i>Listeria</i> spp. (detection)	ISO 11290-1:2017
Staphylococcus (count)	ISO 6888-1:2021/Amd 1:2023
Salmonella (detection)	ISO 6579-1:2017/Amd 1:2020
Yeast & Mould	ISO 6611/IDF 94:2004

(h) Fish and fish products (including shellfish)

<i>Escherichia coli</i>	Enumeration of <i>E. coli</i> in Molluscan Bivalve Shellfish, MPI method
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(k) Non-alcoholic beverages (syrops, juices)

Aciduric Plate Count	58.5 & 8.73
Aciduric Plate Count – MF using Orange Serum Agar	6.54 / 58.5, 8.81
Aerobic Plate Count – MF	6.54
Anaerobic Plate Count	6.7 & 8.73
Lactic Acid Bacteria	Neogen Petrifilm
Osmophilic Fungi (count)	17.3
Yeasts & Moulds – MF	21.51
Yeasts & Moulds – MF	21.52
Xerophilic Yeast & Mould Counts – MF	21.52

(l) Food additives and supplements
(n) Other specified fresh foods
(o) Other specified preserved foods

Aerobic Plate Count	Neogen RAC Petrifilm
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
Yeast & Mould	Neogen RYM Petrifilm

(m) Essential nutrients including vitamins

Yeast & Mould	Neogen RYM Petrifilm
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(n) Other specified fresh foods

Osmophilic fungi (count)	17.3
<i>Staphylococcus aureus</i>	39.6

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(n) Other specified fresh foods
(o) Other specified preserved foods

Aerobic Plate Count	TEMPO AC
<i>Bacillus cereus</i> (count)	TEMPO BC
<i>E. coli</i> (count)	TEMPO EC
Enterobacteriaceae (count)	TEMPO EB
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Yeast & Mould (count)	TEMPO YM
Yeast & Mould	APHA 5 th Edition – Chapter 21.51 (modified)

(o) Other specified preserved foods

Coliform (total)	TEMPO TC
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1.13 Cosmetics, Perfumes and Essential Oils

(a) Microbiological quality (including sterility)

Aerobic Plate Count	Neogen RAC Petrifilm
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
Yeast & Mould	Neogen RYM Petrifilm

1.71 Biological Condition

(b) Plant hygiene evaluation

The following tests are in accordance with APHA Compendium for the Microbiological Examination of Foods (5th Edition) methods unless were otherwise stated:

Aerobic Plate Count	8.82 (including PCR combined preparation/enumeration)
Aerobic Plate Count	MIMM 6
Aerobic Plate Count	Neogen RAC Petrifilm
Aerobic Plate Count	TEMPO AC (including PCR combined preparation/enumeration)
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Bacillus cereus</i> (count)	TEMPO BC
Coliform (total)	TEMPO TC (including PCR combined preparation/enumeration)
<i>E. coli</i> (count)	TEMPO EC (including PCR combined preparation/enumeration)

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<i>E. coli</i> – Petrifilm	9.935 (including PCR combined preparation/enumeration)
<i>E. coli</i> – Petrifilm	MIMM 8.4
Enterobacteriaceae	MIMM 8.2
Enterobacteriaceae	9.62 (modified)
Enterobacteriaceae	9.63 (modified) (including PCR combined preparation/enumeration)
Enterobacteriaceae (count)	TEMPO EB (including PCR combined preparation/enumeration)
Listeria count	ISO 11290-2 (2017)
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
<i>Staphylococcus aureus</i> (count)	TEMPO STA (including PCR combined preparation/enumeration)
Total Coliforms – Petrifilm	9.935 (including PCR combined preparation/enumeration)
Yeast & Mould	21.51 (modified)
Yeast & Mould	Neogen RYM Petrifilm
Yeast & Mould (count)	TEMPO YM

Waters

1.12 Waters

- (a) **Potable waters**
- (b) **Non-potable waters**
- (c) **Sewage**
- (d) **Effluent and trade wastes**
- (e) **Cooling tower and industrial waters**
- (f) **Swimming and spa pools**
- (g) **Marine waters**

The following tests are in accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated.

Aerobic Plate Count 22 °C	MIMM 11.6
<i>E. coli</i> – MF	9222 I (modified)
<i>E. coli</i> – MF	ISO 9308-1:2014/AMD 1:2016
<i>E. coli</i> – MPN	9221 F
<i>E. coli</i> – MPN(TBX)	9221 F (modified)
<i>E. coli</i> – Colilert Quantitray (97 well)	9223 B (excluding marine)
<i>E. coli</i> – Colilert Quantitray (51 well)	9223 B (excluding marine)
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – P/A	9223 B Colilert

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<i>E. coli</i> – Quantitray	MIMM 11.A1
Enterococci – Quantitray	MIMM 12.4
Enterococci	9230 D
Enterococci – MF	9230 C (modified)
Faecal coliforms	9222 D (modified)
Faecal coliforms – MPN	9221 E
Faecal coliforms – MPN	MIMM 11.A2
Heterotrophic plate count (20 °C, 22 °C, 25 °C, 30 °C, 35 °C, 37 °C)	9215 B
Heterotrophic plate count	NeoGen Petrifilm
<i>Pseudomonas aeruginosa</i>	9213 E
<i>Staphylococcus aureus</i>	9213 B
Total coliforms – MF	9222 B
Total coliforms – MF	ISO 9308-1:2014/AMD 1:2016
Total coliforms – MPN	9221 B
Total coliforms – Colilert Quantitray (97 well)	9223 B (excluding marine)
Total coliforms – Colilert Quantitray (51 well)	9223 B (excluding marine)
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B (excluding marine)
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B (excluding marine)
Total coliforms – P/A	9223 B Colilert
Total Coliforms – Quantitray	MIMM 11.A1
Total Coliforms – MPN	MIMM 11.A2

(a) Potable waters

<i>Clostridium perfringens</i> , including Spores – MF	MIMM 11.A3
Enterococci (Faecal Streptococci) – MF	MIMM 11.7
Sulphite Reducing Clostridia including spores – MF	Standing Committee of Analysts Microbiology Drinking Water 2015 (Part 6A)

- (a) Potable waters**
- (e) Cooling tower and industrial waters**
- (f) Swimming and spa pools**

Legionella	AS 3896:2017 (modified)
<i>Pseudomonas aeruginosa</i> – MF	BioRad Method

Molecular Biology

1.03 Drugs and Pharmaceuticals

(a) Microbiological quality (including sterility) (Cannabis)

Salmonella	PCR In-House method
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1.11 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and derived products
- (c) Nuts, fruits, vegetables and derived products
- (d) Sauces, herbs, spices and condiments
- (e) Sugar and sugar confectionery
- (f) Dairy products
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (k) Non-alcoholic beverages
- (p) Canned foods
- (q) Animal feeds

Listeria	PCR In-House method
Salmonella	PCR In-House method

(f) Dairy products

Cronobacter	PCR In-House method
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g) Meat, poultry and derived products

<i>E. coli</i> 0157	Assurance GDS
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(h) Fish and Fish products (including shellfish)

<i>Vibrio cholerae</i>	PCR In-House method
<i>Vibrio parahaemolyticus</i>	PCR In-House method
<i>Vibrio vulnificus</i>	PCR In-House method

(n) Other specified fresh foods (honey)

<i>Leptospermum scoparium</i> DNA	PCR as per MPI Technical Paper 2017/31 (modified)
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1.62 Molecular Biology

(b) DNA typing

American Foulbrood (detection)	qPCR
American Foulbrood (enumeration)	qPCR
American Foulbrood (spores and/or cells)	calculation using the above enumeration

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Testing for the following bacteria in kiwifruit plant material using *Psa-V Taqman Real-Time PCR method*
Pseudomonas syringae pv. actinidiae (Psa)

1.71 Biological Condition

(b) Plant hygiene evaluation

<i>Cronobacter</i> spp. Including <i>Cronobacter sakazakii</i> (PCR)	In-house (including PCR combined preparation/enumeration)
<i>Listeria monocytogenes</i> (PCR)	In-house (including PCR combined preparation/enumeration)
Listeria species (PCR)	In-house (including PCR combined preparation/enumeration)
Listeria/Salmonella (multiplex PCR)	In-house (including PCR combined preparation/enumeration)
Salmonella (PCR)	In-house (including PCR combined preparation/enumeration)
Salmonella/Cronobacter (multiplex PCR)	In-house (including PCR combined preparation/enumeration)

References:

- AS/NZS Australian / New Zealand Standards
- ISO International Standards Organisation
- MIMM Meat Industry Microbiological Methods (5th Edition)

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