



RJ Hill Laboratories Ltd (Hill Labs)
Christchurch

Client Number 6706

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Authorised Representative

Mrs Debra McLachlan
Christchurch Quality Assurance Coordinator

Programme

Biological Testing Laboratory

Accreditation Number 685

Initial Accreditation Date 1 September 1998

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

General Microbiology

- 1.03 Drugs and Pharmaceuticals
- 1.11 Foods
- 1.12 Waters
- 1.13 Cosmetics, Perfumes and Essential Oils
- 1.71 Biological Condition

Molecular Biology

- 1.11 Foods
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MALDI-TOF

- 1.11 Foods
- 1.12 Waters
- 1.71 Biological Condition

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General Microbiology

1.03 Drugs and Pharmaceuticals

(a) Microbiological quality (including sterility)

Aerobic plate count	TEMPO AC
Bile Tolerant Gram Negative Bacteria (BTGN)	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Candida albicans</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Clostridia</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>E. coli</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Pseudomonas aeruginosa</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Salmonella</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Staphylococcus aureus</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
Total Aerobic Microbial Count (TAMC)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests
Total combined Yeast and Mould (TCYM)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests

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 (including shellfish)
- (i) Eggs and egg products
- (k) Non-alcoholic beverages (fruit juices, bottled water)
- (n) Other specified fresh foods (salads, airline meals)
- (o) Other specified preserved foods (dried, frozen)
- (p) Canned foods

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(q) Animal feeds

In accordance with APHA “Compendium of Methods for the Microbiological Examination of Foods” 5th Edition except where otherwise indicated.

Aerobic plate count (Pour plate)	8.72
Aerobic plate count (Spread plate)	8.73
Aerobic plate count (Petrifilm)	8.82
Aerobic plate count	Neogen RAC Petrifilm
Aerobic plate count	TEMPO AC
Anaerobic plate count	6.7
<i>Bacillus cereus</i>	31.6
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Bacillus cereus</i> (count)	TEMPO BC
Campylobacter (Detection)	30
<i>Clostridium perfringens</i>	33.7
<i>E. coli</i> – MPN	9.93
<i>E. coli</i> – Petrifilm	9.935
<i>E. coli</i> (count)	TEMPO EC
Enterobacteriaceae (Pour plate)	9.62 (modified)
Enterobacteriaceae (Petrifilm)	9.63 (modified)
Enterobacteriaceae (count)	TEMPO EB
Faecal coliforms – MPN	9.81 (modified)
<i>Listeria monocytogenes</i>	ISO 11290-2:2017
Mesophilic spore formers	23
<i>Staphylococcus aureus</i>	39.6
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
<i>Staphylococcus aureus</i> (count)	TEMPO STA
Sulphite reducing anaerobes	33.7
Total coliforms	TEMPO TC
Total coliforms – MPN	9.72
Total coliforms – MPN (presumptive)	9.71
Total coliforms – Petrifilm	9.935
Yeasts and moulds	21.5
Yeasts and moulds	21.5 (modified)
Yeasts and moulds	Neogen RYM Petrifilm

l) Food additives and supplements

Aerobic plate count	Neogen RAC Petrifilm
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm

- (a) Cereals and cereal products**
- (b) Edible oils, fats and derived products**
- (c) Nuts, fruits, vegetables and derived products**

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- (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 (including shellfish)
- (l) Food additives and supplements
- (n) Other specified fresh foods (salads, airline meals)
- (o) Other specified preserved foods (dried, frozen)
- (p) Canned foods
- (q) Animal feeds

Yeasts and moulds TEMPO YM

(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/Amd1:2020
Coliform (count)	ISO 4832:2006
Coliform (MPN)	ISO 11866-1/IDF 170-1:2005 (Modified)
Enterobacteriaceae (detection)	ISO 21528-1:2017
Enterobacteriaceae (count)	ISO 21528-2:2017
<i>E. coli</i> (MPN)	ISO 11866-1/IDF 170-1:2005 (Modified)
<i>E. coli</i> (count)	ISO 16649-2:2001
<i>Listeria monocytogenes</i>	ISO 11290-1:2017
<i>Listeria</i> spp.	ISO 11290-1:2017
<i>Salmonella</i> spp.	ISO 6579-1:2017/Amd 1:2020
<i>Staphylococcus aureus</i> (count)	ISO 6888-1:2021/Amd 1:2023
Yeasts and moulds	ISO 6611/IDF 94:2004

(l) Food additives and supplements
(m) Essential nutrients including vitamins

Aerobic plate count TEMPO AC
Yeasts and moulds Neogen RYM Petrifilm

(h) Fish and fish products (including shellfish)

Escherichia coli Enumeration of *E. coli* in Molluscan Bivalve Shellfish, MPI method

(b) Edible oils, fats and derived products

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- (c) Nuts, fruits, vegetables and derived products**
- (l) Food additives and supplements**
- (m) Essential nutrients including vitamins**
- (o) Other specified preserved foods**

Bile Tolerant Gram Negative Bacteria (BTGN)	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Candida albicans</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Clostridia</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>E. coli</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Pseudomonas aeruginosa</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Salmonella</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Staphylococcus aureus</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
Total Aerobic Microbial Count (TAMC)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests
Total combined Yeast and Mould (TCYM)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests

1.12 Waters

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” Online Edition except where otherwise indicated.

- (a) Potable waters**
- (b) Non-potable waters**
- (c) Sewage**
- (d) Effluent and trade wastes**
- (g) Marine waters**

<i>E. coli</i>	9222 I (modified)
<i>E. coli</i> – MPN	9221 F (modified)
<i>E. coli</i> – Colilert Quantitray (51 well)	9223 B (excluding marine)
<i>E. coli</i> – Colilert Quantitray (97 well)	9223 B (excluding marine)
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
Enterococci	9230 C (modified)
Enterococci	9230 D
Faecal coliforms	9222 D (modified)

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Faecal coliforms – MPN	9221 E
Heterotrophic plate count	9215 B
Heterotrophic plate count	Neogen Petrifilm
Total coliforms – MPN	9221 B
Total coliforms – Colilert Quantitray (51 well)	9223 B (excluding marine)
Total coliforms – Colilert Quantitray (97 well)	9223 B (excluding marine)
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B (excluding marine)
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B (excluding marine)
Total coliforms (presumptive) – MPN	9221 B

(a) Potable Waters

<i>E. coli</i>	ISO 9308-1:2014/Amendment 1:2016
<i>Legionella pneumophila</i>	AS 3896:2017 (modified)
<i>Legionella</i> species	AS 3896:2017 (modified)
<i>Pseudomonas aeruginosa</i>	APHA 9213 E
Sulphite reducing <i>Clostridia</i>	Standing Committee of Analysts, The Microbiology of Drinking Water (2015) Part 6A
Total coliforms	ISO 9308-1:2014/Amendment 1:2016

(e) Cooling tower and industrial waters

Heterotrophic plate count (22 °C, 35 °C)	9215 B
Heterotrophic plate count	Neogen Petrifilm
<i>Legionella pneumophila</i>	AS 3896:2017 (modified)
<i>Legionella</i> species	AS 3896:2017 (modified)

(f) Swimming and spa pools

<i>E. coli</i>	9222 I (modified)
Faecal coliforms	9222 D (modified)
Heterotrophic plate count	9215 B
Heterotrophic plate count	Neogen Petrifilm
<i>Legionella pneumophila</i>	AS 3896:2017 (modified)
<i>Legionella</i> spp.	AS 3896:2017 (modified)
<i>Pseudomonas aeruginosa</i> (MF)	9213 E
<i>Staphylococcus aureus</i> (MF)	9213 B

1.13 Cosmetics, Perfumes and Essential Oils

(a) Microbiological quality (including sterility)

Aerobic Plate Count	Neogen RAC Petrifilm
Aerobic Plate Count	TEMPO AC
<i>Bacillus cereus</i>	Neogen BC Petrifilm
Bile Tolerant Gram Negative Bacteria (BTGN)	USP 62 – Microbiological Examination of Nonsterile

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<i>Candida albicans</i>	Products: Tests for Specified Microorganisms USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Clostridia</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>E. coli</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Pseudomonas aeruginosa</i>	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Salmonella</i> spp.	USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
<i>Staphylococcus aureus</i> <i>Staphylococcus aureus</i>	STX Petrifilm USP 62 – Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms
Total Aerobic Microbial Count (TAMC)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests
Total combined Yeast and Mould (TCYM)	USP 61 – Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests
Yeasts and moulds	Neogen RYM Petrifilm
Yeasts and moulds	TEMPO YM

1.71 Biological Condition

(a) Air

In accordance with APHA “Compendium of Methods for the Microbiological Examination of Foods” 5th Edition except where otherwise indicated.

Exposure plates (incubation and counting)

Aerobic plate count	8.73
<i>Bacillus cereus</i>	31.6
<i>E. coli</i>	9.93
<i>Listeria</i> spp.	ISO 11290-2:2017
<i>Staphylococcus aureus</i>	39.6
Yeast and mould	21.5 (modified)

(b) Plant hygiene evaluation (environmental swabs)

Aerobic plate count	8.72
Aerobic plate count	8.73
Aerobic plate count	8.82 (including PCR combined preparation/enumeration)
Aerobic plate count	Neogen RAC Petrifilm

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Aerobic plate count	TEMPO AC (including PCR combined preparation/enumeration)
<i>Bacillus cereus</i>	Neogen BC Petrifilm
<i>Bacillus cereus</i> (count)	TEMPO BC
<i>E. coli</i>	9.93
<i>E. coli</i>	9.935 (including PCR combined preparation/enumeration)
<i>E. coli</i> (count)	TEMPO EC (including PCR combined preparation/enumeration)
Enterobacteriaceae	9.63 (modified) (including PCR combined preparation/enumeration)
Enterobacteriaceae (count)	TEMPO EB (including PCR combined preparation/enumeration)
Faecal coliforms	9.81 (modified)
<i>Staphylococcus aureus</i>	Neogen STX Petrifilm
<i>Staphylococcus aureus</i> (count)	TEMPO STA (including PCR combined preparation/enumeration)
Total coliforms	9.935 (including PCR combined preparation/enumeration)
Total coliforms	9.72
Total coliforms	TEMPO TC (including PCR combined preparation/enumeration)
Total coliforms (presumptive)	9.71
Yeasts and moulds	21.5
Yeasts and moulds	21.5 (modified)
Yeasts and moulds	Neogen RYM Petrifilm
Yeasts and moulds	TEMPO YM
Contact plates (incubation and counting)	
Aerobic plate count	APHA Comp 8.73
<i>Bacillus cereus</i>	APHA Comp 31.6
<i>E. coli</i>	APHA Comp 9.93
<i>Staphylococcus aureus</i>	APHA Comp 39.6

Molecular Biology

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**

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- (f) Dairy products**
- (g) Meat, poultry and derived products**
- (h) Fish and fish products**
- (i) Eggs and egg products**
- (k) Non-alcoholic beverages**
- (n) Other specified fresh foods**
- (o) Other specified preserved foods**
- (p) Canned foods**
- (q) Animal feeds**

<i>Cronobacter</i> spp. (including <i>Cronobacter sakazakii</i>)	In-house method
<i>E. coli</i> O157	Assurance GDS
Listeria (PCR)	In-house method
<i>Listeria monocytogenes</i> (PCR)	In-house method
Salmonella (PCR)	In-house method

(h) Fish and fish products (including shellfish)

<i>Vibrio cholera</i> (PCR)	In-house method
<i>Vibrio parahaemolyticus</i> (PCR)	In-house method
<i>Vibrio vulnificus</i> (PCR)	In-house method

(l) Food additives and supplements

Salmonella (PCR)	In-house method
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1.12 Waters

(g) Marine waters

<i>Vibrio cholera</i> (PCR)	In-house method
<i>Vibrio parahaemolyticus</i> (PCR)	In-house method
<i>Vibrio vulnificus</i> (PCR)	In-house method

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)
Enterobacteriaceae and Salmonella species detection	Hygiene Food Proof Enterobacteriaceae and Salmonella PCR
<i>Listeria monocytogenes</i> (PCR)	In-house (including PCR combined preparation/enumeration)

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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)

MALDI-TOF

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 (including shellfish)
- (i) Eggs and egg products
- (k) Non-alcoholic beverages (fruit juices, bottled water)
- (l) Food additives and supplements
- (m) Essential nutrients, including vitamins
- (n) Other specified fresh foods (salads, airline meals)
- (o) Other specified preserved foods (dried, frozen)
- (p) Canned foods
- (q) Animal feeds

Microbial (ID & confirmation) Brüker MALDI Biotyper

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

Microbial (ID & confirmation) Brüker MALDI Biotyper

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1.71 Biological Condition

- (a) Air**
- (b) Plant hygiene evaluation (environmental swabs)**

Microbial (ID & confirmation) Brüker MALDI Biotyper

References:

- APHA American Public Health Association
- AS Australian Standard
- AS/NZS Australian Standard / New Zealand Standard
- FDA BAM United States Food and Drug Administration Bacteriological Analytical Manual
- USP United States Pharmacopeia, current published edition

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