



**Hill Laboratories**

Christchurch

**Client Number 6706**

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**Authorised Representative**

Mrs Debra McLachlan  
SI Quality Assurance and Health and Safety 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**

- 1.11 Foods
- 1.12 Waters
- 1.71 Biological Condition

**Molecular Biology**

- 1.11 Foods
- 1.71 Biological Condition

**Key Technical Personnel**

**General Microbiology**

Miss Carla Cuba Bejarano	1.11, 1.12, 1.71
Ms Lisa Bullock	1.11, 1.12, 1.71
Mrs Marisa Fonseka	1.11, 1.12, 1.71
Mrs Yu (Dominique) Gao	1.11, 1.12, 1.71
Mrs Renee Kellerhals	1.12
Miss Jill Martin	1.11, 1.12, 1.71

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# CERTIFICATE OF ACCREDITATION



Ms Barbara Müller	1.11, 1.12, 1.71
Ms Paula Robson	1.11, 1.12, 1.71

## Molecular Biology

Miss Carla Cuba Bejarano	1.11, 1.71
Ms Lisa Bullock	1.11, 1.71
Mrs Marisa Fonseka	1.11, 1.71
Mrs Yu (Dominique) Gao	1.11, 1.71
Miss Jill Martin	1.11, 1.71
Ms Barbara Müller	1.11, 1.71
Ms Paula Robson	1.11, 1.71

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**General Microbiology**

**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
- (q) Animal feeds

In accordance with APHA “Compendium of Methods for the Microbiological Examination of Foods” 5<sup>th</sup> 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	TEMPO AC
Anaerobic plate count	6.7
<i>Bacillus cereus</i>	31.6
<i>Bacillus cereus</i> (count)	TEMPO BC
Campylobacter (Detection)	30
<i>Clostridium perfringens</i>	33.7
Coliform (count)	TEMPO CC
<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> (count)	TEMPO STA
Sulphite reducing anaerobes	33.7
Total coliforms	Tempo TC

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<i>E. coli</i>	9222 I (modified)
<i>E. coli</i> – MF	9222 I
<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)
Faecal coliforms – MF	9222 D
Faecal coliforms – MPN	9221 E
Heterotrophic plate count	9215 B
Heterotrophic plate count	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>	AS/NZS 4276.7:2007
<i>E. coli</i>	ISO 9308-1:2014/Amendment 1:2016
Faecal coliforms	AS/NZS 4276.7:2007
Heterotrophic plate count	AS/NZS 4276.3.1:2007
<i>Pseudomonas aeruginosa</i>	AS/NZS 4276.13:2008
<i>Pseudomonas aeruginosa</i>	APHA 9213 E
Sulphite reducing Clostridia	Standing Committee of Analysts, The Microbiology of Drinking Water (2015) Part 6A
Total coliforms	AS/NZS 4276.5:2007
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	Petrifilm
<i>Legionella pneumophila</i>	AS 3896:2017
Legionella species	AS 3896:2017

**(f) Swimming and spa pools**

<i>E. coli</i>	9222 I (modified)
Faecal coliforms	9222 D (modified)
Faecal coliforms – MF	9222 D
Heterotrophic plate count (22°C, 35°C, 37°C)	9215 B

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*Pseudomonas aeruginosa* (MF) 9213 E  
*Staphylococcus aureus* (MF) 9213 B

**1.71 Biological Condition**

**(b) Plant hygiene evaluation (environmental swabs)**

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

Aerobic plate count 8.72  
 Aerobic plate count 8.73  
 Aerobic plate count 8.82  
 Aerobic plate count TEMPO AC  
*Bacillus cereus* (count) TEMPO BC  
 Coliform (count) TEMPO CC  
*E. coli* 9.93  
*E. coli* 9.935  
*E. coli* (count) TEMPO EC  
 Enterobacteriaceae 9.63 (modified)  
 Enterobacteriaceae (count) TEMPO EB  
 Faecal coliforms 9.81 (modified)  
*Staphylococcus aureus* (count) TEMPO STA  
 Total coliforms 9.935  
 Total coliforms 9.72  
 Total coliforms TEMPO TC  
 Total coliforms (presumptive) 9.71  
 Yeasts and moulds 21.5  
 Yeasts and moulds 21.5 (modified)  
 Yeasts and moulds TEMPO YM

**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
- (f) Dairy products
- (g) Meat, poultry and derived products

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- (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**

Cronobacter 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

**(l) Food additives and supplements**

Salmonella (PCR)	In-house method
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**1.71 Biological Condition**

**(b) Plant hygiene evaluation**

Cronobacter spp. including <i>Cronobacter sakazakii</i>	In-house method
<i>Listeria monocytogenes</i> (PCR)	In-house method
Listeria species (PCR)	In-house method
Salmonella (PCR)	In-house method

**References:**

APHA American Public Health Association  
 AS/NZS Australian Standard / New Zealand Standard  
 FDA BAM United States Food and Drug Administration Bacteriological Analytical Manual

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