



Schedule to  
**CERTIFICATE OF ACCREDITATION**

Hill Laboratories  
 Biological Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation No 685

**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" 4<sup>th</sup> Edition except where otherwise indicated.

Aerobic plate count	6.3
Aerobic plate count	7.62
Aerobic plate count	7.63
Aerobic plate count	7.72
Anaerobic plate count	6.7
Listeria	36.5
Listeria	FDA BAM Ch. 10
Listeria	Tecra VIA
Listeria monocytogenes	36.5
Listeria monocytogenes	FDA BAM Ch. 10
Listeria monocytogenes	Tecra VIA
Salmonella	FDA BAM Chapter 5
Salmonella	Tecra VIA
Salmonella	Merck DIASALM
Salmonella (lamb and seafood only)	EN/ISO 6579: 2000(E)
<i>Staphylococcus aureus</i>	39.5
<i>Staphylococcus aureus</i>	FDA BAM Chapter 12
Yeasts and moulds	20.51
<i>Clostridium perfringens</i>	34.7
Faecal coliforms - MPN	8.81
Faecal coliforms - MPN	FDA BAM Chapter 4
Total coliforms - MPN (presumptive)	8.71
Total coliforms - MPN (presumptive)	FDA BAM Chapter 4
Total coliforms - MPN	8.72
Total coliforms - MPN	FDA BAM Chapter 4
Total coliforms - Petrifilm	8.935

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<i>E coli</i> - MPN	8.91
<i>E coli</i> - MPN	8.92
<i>E coli</i> - MPN	8.93
<i>E coli</i> - MPN	FDA BAM Chapter 4
<i>E coli</i> - Petrifilm	8.935
Enterobacteriaceae	8.62 (modified)
Enterobacteriaceae	8.631 (modified 37°C)
Campylobacter	31
Mesophilic spore formers	22.5
Vibrio	FDA BAM Chapter 9
Vibrio	FDA BAM Chapter 9 (modified)
Vibrio	APHA Chapter 40
Vibrio	APHA Chapter 40 (modified)
<i>E coli</i> O157	Tecra VIA (modified)
<i>E coli</i> O157	Assurance GDS
pH	In-house
<i>Bacillus cereus</i>	32.2
<i>Bacillus cereus</i>	32.2 (modified)
Sulphite reducing anaerobes	34.7 (modified)

**1.12 Waters**

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” 21<sup>st</sup> Edition except where otherwise indicated.

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

Heterotrophic plate count	9215 B
Heterotrophic plate count	MIMM 11.6
Total coliforms (presumptive) - MPN	9221 B
Total coliforms (presumptive) - MPN	9223 B
Total coliforms - MPN	9221 B
Total coliforms - MPN	9223 B
Total coliforms - MF	9222 B (modified)
Total coliforms - P/A	9223 B
Faecal coliforms - MPN	9221 B
Faecal coliforms - MPN	9221 E
Faecal coliforms - MF	9222 D
Faecal coliforms - MF	9222 D (modified)
Faecal coliforms - MF	9221 E
Faecal coliforms - MF	9221 E
Faecal coliforms – P/A	9221 E
<i>E coli</i> - MPN	9221 B
<i>E coli</i> - MPN	9221 F

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<i>E coli</i> - MPN	9223 B
<i>E coli</i> - MF	9222 G
<i>E coli</i> - MF	9222 B (modified)
<i>E coli</i> - MF	9222 D
<i>E coli</i> - MF	9222 D (modified)
<i>E coli</i> - MF	9221 F
<i>E coli</i> - P/A	9221 F
<i>E coli</i> - P/A	9223 B
Enterococci	9230 C
Enterococci	USEPA 1106.1
Enterococci (excluding sewage)	MIMM 12.4

**(a) Potable Waters**

Heterotrophic plate count	AS 4276.3.1: 2007
Total coliforms	AS 4276.5
Faecal coliforms	AS 4276.7
<i>E coli</i>	AS 4276.7
<i>Pseudomonas aeruginosa</i>	AS 4276.13
<i>Pseudomonas aeruginosa</i>	APHA 9213 E
Faecal streptococci	MIMM 11.7
Sulphite reducing clostridia	MIMM 11.8

**(e) Cooling tower and industrial waters**

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

**(f) Swimming and spa pools**

<i>Staphylococcus aureus</i> (MPN)	9213 B
<i>Staphylococcus aureus</i> (MF)	9213 B
<i>Pseudomonas aeruginosa</i> (MF)	9213 E
Heterotrophic plate count (22°C, 35°C)	9215 B
Total coliforms (presumptive) - MPN	9221 B
Total coliforms (presumptive) - MPN	9221 E
Total coliforms (presumptive) - MF	9222 B
Total coliforms (presumptive) - MF	9222 D
Total coliforms (presumptive) - MF	9222 D (modified)
Total coliforms (presumptive) - MF	9221 E
Faecal coliforms - MPN	9221 B
Faecal coliforms - MPN	9221 E
Faecal coliforms - MF	9222 B
Faecal coliforms - MF	9222 D
Faecal coliforms - MF	9222 D (modified)

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Faecal coliforms - MF 9221 E

**1.71 Biological Condition**


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

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Aerobic plate count	6.3
Aerobic plate count	7.62
Aerobic plate count	7.63
Aerobic plate count	7.72
Listeria species	36.5
Listeria species	Tecra VIA
<i>Listeria monocytogenes</i>	36.5
<i>Listeria monocytogenes</i>	Tecra VIA
Salmonella	Merck Diasalm
Salmonella	Tecra VIA
Total coliforms (presumptive)	8.71
Total coliforms	8.72
Total coliforms	8.91
Total coliforms	8.92
Faecal coliforms	8.81
Faecal coliforms	8.91
Faecal coliforms	8.92
<i>E coli</i>	8.93
<i>E coli</i>	8.935
Yeasts and moulds	20.51
Hygiene evaluation	NZTM 2.120 (modified)

**References:**

- APHA American Public Health Association
- AS Australian Standard
- MIMM Microbiological Methods for the Meat Industry (4<sup>th</sup> Edition)
- FDA BAM United States Food and Drug Administration Bacteriological Analytical Manual
- NZTM 2 New Zealand Dairy Industry Microbiological Test Methods Manual
- NMD NZFSA National Microbiological Database Technical Procedures
- USEPA United States Environmental Protection Agency

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