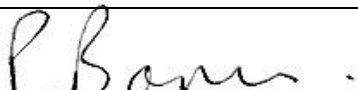


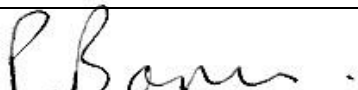
## Laboratory Accreditation Programmes

Schedule to <b>CERTIFICATE OF ACCREDITATION</b>	
Hill Laboratories Christchurch  PO Box 16607, Hornby, Christchurch, 8441 101C Waterloo Road, Hornby, Christchurch, 8042  <b>Telephone 0508 445-5522</b> <b>Fax</b>	<b>Client No. 6706</b>     <b>www.hill-laboratories.com</b>
<b>Authorised Representative</b> Mrs Debra McLachlan SI Quality Assurance and Health and Safety Coordinator   <b>Programme</b> MPI Recognised Laboratory Programme  <b>Accreditation Number 1138</b> <span style="float: right;"><b>Initial Accreditation Date 2 December 2015</b></span>	
<b>Conformance Standard</b> NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories  Animal Products Notice – Specifications for Laboratories	
<b>Testing Services Summary</b>  <div style="text-align: center;">           Meat &amp; Poultry Industry Potable Water Microbiology            Meat &amp; Meat Product, Poultry &amp; Honey Microbiology/Parasitology            Potable Water - Physico-Chemical Parameters            Seafood Products and Water            Dairy (Raw Milk)            Dairy Products - Microbiology         </div>	
<b>Key Technical Personnel</b>  Ms Karyn Addison <span style="float: right;">5.01, 5.02, 5.03, 5.04</span>  Mrs Lisa Bullock <span style="float: right;">1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 31.10, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17</span>  Mrs Marisa Fonseca <span style="float: right;">1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2,</span>	

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Mrs Renee Kellerhals	2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17
Miss Stephanie Lavill	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 11.1.1, 11.1.2
Miss Fangqing (Michelle) Liu	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17
Miss Jill Martin	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17
Ms Anna Morten	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17
Ms Barbara Müller	5.01, 5.02, 5.03, 5.04
Mrs Lucia Olmos	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3; selected, 11.5.4; selected, 11.5.6, 11.5.10; selected, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7; selected, 11.8.1, 11.8.2, 11.8.5, 11.8.6; selected, 31.10, 31.12, 31.17
Miss Jennifer Vallance	1.1.1, 1.2, 1.3, 1.6.1, 1.8, 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.2.1, 2.2.2, 2.3, 2.4.1, 2.4.2, 2.4.3, 2.6, 2.8, 2.9, 23.1, 23.1.1, 23.3, 23.4, 11.1.1, 11.1.2, 11.5.3, 11.5.4, 11.5.6, 11.5.10, 11.5.11, 11.5.12, 11.6.1, 11.6.2, 11.6.3, 11.6.4, 11.6.7, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.2, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.17

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# Laboratory Accreditation Programmes

Schedule to  
**CERTIFICATE OF ACCREDITATION**

Hill Laboratories  
 MPI Recognised Laboratory Programme  
**SCOPE OF ACCREDITATION**

Accreditation Number 1138

The MPI Recognised Laboratory Programme commenced in 2015, replacing prior regulatory recognition/approval schemes for testing laboratories under the Animal Products Act. This accreditation replaces previously held accreditations by this laboratory in the following IANZ Laboratory Accreditation Programmes called up under the Animal Products Act.

IANZ Laboratory Accreditation Programme	Accreditation Number	Date of Initial Accreditation
MPI Laboratory Approval Scheme	894	04/02/2004

### Meat & Poultry Industry Potable Water Microbiology

In accordance with MIMM: Microbiological Methods for the Meat Industry (5<sup>th</sup> Edition)

1.1.1	Total coliforms / <i>Escherichia coli</i>	11.A1.1
1.2	Faecal coliforms	11.4 mFC MF
	Faecal coliforms	11.A2 MPN
1.3	Standard plate count (22 °C/72hr)	11.6
1.6.1	<i>Clostridium perfringens</i>	11.A3
1.8	<i>Escherichia coli</i>	11.A1.1

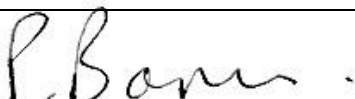
### Meat & Meat Product, Poultry & Honey Microbiology/Parasitology

In accordance with MIMM: Microbiological Methods for the Meat Industry (5<sup>th</sup> Edition) and the following NZ Food Safety Authority (Animal Products) Schedule 1 Technical Procedures for the National Microbiological Database

- Farmed Animals; Bovine, Ovine, Bobby calves
- Cervine; excluding feral deer
- Porcine

2.1.1	Aerobic Plate Count	MIMM 6
2.1.2	Aerobic Plate Count spread plate	NMD 4.7.2 with sampling NMD 3
2.1.3	Aerobic Plate Count Petrifilm	NMD 4.7.3 with sampling NMD 3
2.1.5	Aerobic Plate Count	China OMAR 09/35 / MIMM 6
2.2.1	<i>Escherichia coli</i>	MIMM 8.4
2.2.2	<i>Escherichia coli</i> , Petrifilm	NMD 4.8 with sampling NMD 3
2.3	<i>Staphylococcus aureus</i>	MIMM 7.8
2.4.1	Salmonella	MIMM 7.7
	Salmonella	PCR (In-house)

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**SCOPE OF ACCREDITATION**

2.4.2	Salmonella	ISO 6579:2002
2.4.3	Salmonella	NMD 4.9 with sampling NMD 3
2.6	<i>Listeria monocytogenes</i>	PCR (In-house)
2.8	<i>Clostridium perfringens</i>	MIMM 7.10
2.9	Enterobacteriaceae	MIMM 8.2
23.1	<i>Escherichia coli</i> O157:H7	Biocontrol Assurance GDS <i>E. coli</i> O157:H7 screen test
23.1.1	<i>Escherichia coli</i> O157:H7	Culture isolation using IMS
23.3	Top 7 Shiga Toxin-Producing <i>Escherichia coli</i>	BioControl Assurance GDS® MPX Top 7 screen test
23.4	Top 7 Shiga toxin producing <i>Escherichia coli</i> Molecular confirmation	NeoSEEK

**Potable Water - Physico-Chemical Parameters**

In accordance with APHA Standards Methods for the Examination of Water and Wastewater (22<sup>nd</sup> Edition or on-line edition)

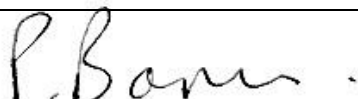
5.01	Colour	2120 B
5.02	Conductivity	2510 B
5.03	pH (hydrogen ion concentration)	4500-H B
5.04	Turbidity	2130 B

**Seafood Products and Water**

In accordance with APHA Recommended Procedures for the Examination of Sea Water and Shellfish (4<sup>th</sup> Edition) unless otherwise stated.

11.1.1	Faecal coliforms	MIMM 11.A2
11.1.1	Faecal coliforms	MIMM 11.4
11.1.2	Total coliforms	MIMM 11.A2
11.1.2	Total coliforms	MIMM11.A1.1
11.5.3	Standard Plate Count	APHA Comp. Ch. 8.72
11.5.3	Standard Plate Count	APHA Comp. Ch. 8.82
11.5.3	Standard Plate Count	TEMPO AC
11.5.4	<i>Staphylococcus aureus</i>	APHA Comp. Ch.39.5
11.5.4	<i>Staphylococcus aureus</i>	TEMPO STA

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### SCOPE OF ACCREDITATION

11.5.6	<i>Vibrio parahaemolyticus</i>	FDA BAM Ch. 9 (modified)
11.5.10	<i>Escherichia coli</i>	APHA Comp. Ch. 9.91 (modified)
11.5.10	<i>Escherichia coli</i>	APHA Comp. Ch. 9.92
11.5.10	<i>Escherichia coli</i>	FDA BAM Ch. 4
11.5.10	<i>Escherichia coli</i>	TEMPO EC
11.5.11	Salmonella	PCR (In-house)
11.5.12	<i>Vibrio cholerae</i>	APHA Comp. Ch. 40 (modified)
11.5.12	<i>Vibrio cholerae</i>	FDA BAM Ch. 9 (modified)
11.6.1	Faecal coliforms	APHA (4th Edition) Part III
11.6.2	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.6.3	Salmonella	ISO 6579:2002
11.6.4	<i>Vibrio parahaemolyticus</i>	FDA BAM Ch. 9
11.6.7	Aerobic Plate Count	APHA Comp. Ch. 8.72
11.6.7	Aerobic Plate Count	APHA Comp. Ch. 8.82
11.6.7	Aerobic Plate Count	TEMPO AC
11.8.1	<i>Escherichia coli</i>	Enumeration of <i>E coli</i> in Molluscan Bivalve Shellfish, MPI method
11.8.2	Salmonella	PCR (In-house)
11.8.5	<i>Listeria monocytogenes</i>	ISO 11290-2:1998
	<i>Listeria monocytogenes</i>	PCR (In-house)
11.8.6	Aerobic plate count	APHA Comp. Ch. 6.523
11.8.6	Aerobic plate count	APHA Comp. Ch. 8.72
11.8.6	Aerobic plate count	APHA Comp. Ch. 8.82
11.8.6	Aerobic plate count	TEMPO AC

### Dairy (Raw Milk)

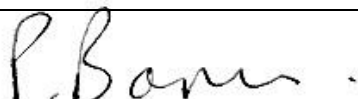
30.5	Aerobic Plate Count	TEMPO AC
30.6	Total coliforms	TEMPO CC

### Dairy Products - Microbiology

(milk, milk powders, butter, caseins, infant formula)

31.1	Aerobic Plate Count	TEMPO AC
31.2	<i>Bacillus cereus</i>	TEMPO BC

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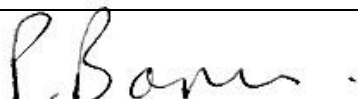
**SCOPE OF ACCREDITATION**

31.6	Coliform (count)	TEMPO CC
31.7	<i>Escherichia coli</i>	TEMPO EC
31.8	Enterobacteriaceae	TEMPO EB
31.10	<i>Listeria monocytogenes</i>	PCR (In-house)
31.12	Salmonella (detection)	PCR (In-house)
31.14	<i>Staphylococcus aureus</i>	TEMPO STA
31.17	<i>Cronobacter sakazakii</i>	PCR (In-house)

**References:**

APHA	Standard Methods for the Examination of Water and Wastewaters (22 <sup>nd</sup> Edition)
APHA (4 <sup>th</sup> Ed)	Recommended Procedures for the Examination of Seawater and Shellfish
APHA Comp.	Compendium of Methods for the Microbiological Examination of Foods (5 <sup>th</sup> Edition)
FDA BAM	US Food & Drug Administration Bacteriological Analytical Manual (8 <sup>th</sup> Edition)
ISO	International Standards Organisation
MIMM	Meat Industry Microbiological Methods

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