



**Cawthron Institute**

**Client Number 34**

Private Bag 2, Nelson Mail Centre, Nelson, 7042  
98 Halifax Street East, The Wood, Nelson, 7010

**Telephone 03 548-2319**

**www.cawthron.org.nz**

**Authorised Representative**

Mrs Anneke van Laanen  
Quality Manager – Analytical Science

**Programme**

MPI Recognised Laboratory Programme

**Accreditation Number 1145**

**Initial Accreditation Date 18 December 2015**

**Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Animal Products Notice: Recognised Laboratories  
Animal Products Regulations 2021

**Laboratory Services Summary**

Potable/Suitable Water for Meat, Poultry, Egg & Honey Industry Microbiology  
Meat & Meat Product, Poultry, Egg and Egg Product & Honey Microbiology / Parasitology  
Deer Velvet, Fish - Chemistry  
Tallow and Fats  
Animal Products in General - Composition (includes vitamins, minerals and other nutrients)  
Animal Products In General - Food Additives and Ingredients  
Animal Products - Chemical Residue Testing (NCRP, NCCP & OMAR)  
Seafood Products and Potable/Suitable Water  
Dairy Products - Microbiology  
Dairy Products - Composition (includes standards of identity, vitamins, minerals & other nutrients)

**Key Technical Personnel**

Mr Michael Boundy

8.43, 11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.5, 11.7.6, 11.7.7

Mr Aaron Brownlow

3.1.2, 3.1.3, 3.1.4, 4.04, 6.30, 11.5.9

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Ms Emillie Burger	11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.5, 11.7.6, 11.7.7
Ms Paveena Chomphoosri	3.1.2, 3.1.3, 3.1.4, 4.02, 4.03, 4.04, 6.14, 6.15, 6.16, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 7.05, 8.20, 11.5.7, 11.5.9, 11.6.6, 32.9
Ms Pam Curtis	1.1.1, 2.1.1, 2.1.3, 2.1.4, 2.1.5, 2.2.1, 2.2.2, 2.4.1, 2.4.2, 2.4.3, 2.9, 2.10.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 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, 11.6.8, 11.6.9, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.3, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Miss Rebecca D'Souza	3.1.2, 3.1.3, 3.1.4, 4.04, 8.43, 8.45, 11.5.8, 32.21, 32.33
Mr Mark Englefield	1.1.1, 2.1.1, 2.1.3, 2.1.4, 2.1.5, 2.2.1, 2.2.2, 2.4.1, 2.4.2, 2.4.3, 2.9, 2.10.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 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, 11.6.8, 11.6.9, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.3, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Ms Linsey Ferguson	3.1.2, 3.1.3, 3.1.4, 4.02, 4.03, 4.04, 6.30, 11.5.9
Mr Joshua Fitzgerald	8.43, 8.45, 11.5.8, 32.21
Mrs Krishna Harris	1.1.1, 2.1.1, 2.1.3, 2.1.4, 2.1.5, 2.2.1, 2.2.2, 2.4.1, 2.4.2, 2.4.3, 2.9, 2.10.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 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, 11.6.8, 11.6.9, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.3, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Mrs Penny Harrison	11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.5, 11.7.6, 11.7.7, 11.7.8
Mr Ryan Hunter	1.1.1, 2.1.1, 2.1.3, 2.1.4, 2.1.5, 2.2.1, 2.2.2, 2.4.1, 2.4.2, 2.4.3, 2.9, 2.10.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 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, 11.6.8, 11.6.9, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.3, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Ms Simone Jarrett	11.7.8
Mrs Navneet Kaur	3.1.2, 3.1.3, 3.1.4, 4.02, 4.03, 4.04, 6.15, 6.30, 7.05, 11.5.9
Ms Rita Lee	11.7.8
Mr David Lewis	6.14, 6.15, 6.16, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 7.05, 8.20, 11.5.7, 11.6.6, 32.9
Ms Catherine Moisan	11.7.8
Mr Paul Parker	3.1.2, 3.1.3, 3.1.4, 4.02, 4.03, 6.30, 8.45, 11.5.8, 11.5.9, 32.21, 32.33
Mr Sarbjit Singh	

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# CERTIFICATE OF ACCREDITATION



	1.1.1, 2.1.1, 2.1.3, 2.1.4, 2.1.5, 2.2.1, 2.2.2, 2.4.1, 2.4.2, 2.4.3, 2.9, 2.10.1, 11.1.2, 11.2.1, 11.2.3, 11.3.1, 11.3.3, 11.4.1, 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, 11.6.8, 11.6.9, 11.8.1, 11.8.2, 11.8.5, 11.8.6, 30.5, 30.6, 31.1, 31.3, 31.6, 31.7, 31.8, 31.10, 31.12, 31.14, 31.16, 31.17
Ms Susannah Thompson	4.02, 4.03, 6.30
Mr Roel van Ginkel	8.43, 11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.5, 11.7.6, 11.7.7

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Cawthron Institute  
MPI Recognised Laboratory Programme

Accreditation Number 1145

**SCOPE OF ACCREDITATION**

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
Dairy Testing Laboratory	629	06/01/1997
MPI Laboratory Approval Scheme	895	04/02/2004

**Potable/Suitable Water for Meat, Poultry, Egg & Honey Industry Microbiology**

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) unless otherwise stated.

1.1.1 Total coliforms / *Escherichia coli* APHA 9223 B

**Meat & Meat Product, Poultry, Egg and Egg Product & Honey Microbiology / Parasitology**

In accordance with MIMM: Microbiological Methods for the Meat Industry (5th Edition) and the following Ministry for Primary Industries Animal Products Notice: National Microbiological Database Programme.

- Farmed Animals; Ovine, Bobby calves

2.1.1	Aerobic Plate Count	APHA Ch. 8
2.1.1	Aerobic Plate Count	NMD 3.21.6 with sampling NMD 3
2.1.1	Aerobic Plate Count	NMD 3.21.7 with sampling NMD 3
2.1.3	Aerobic Plate Count Petrifilm	NMD 3.21.6 with sampling NMD 3
2.1.4	APC spiral plater	NMD 3.21.7 with sampling NMD 3
2.1.5	Aerobic Plate Count	NMD 3.21.6 China OMAR
2.1.5	Aerobic Plate Count	NMD 3.21.7 China OMAR
2.2.1	<i>Escherichia coli</i> , direct plate or Petrifilm	MIMM 8.4
2.2.2	<i>Escherichia coli</i> , Petrifilm	NMD 3.22 with sampling NMD 3
2.4.1	Salmonella (selected)	AOAC 2016.01
	Salmonella (selected)	ISO 6579-1:2017 (amendment 1:2020)
2.4.2	Salmonella	ISO 6579-1:2017 (amendment 1:2020)
2.4.3	Salmonella	NMD 3.23 with sampling NMD 3
2.9	Enterobacteriaceae (Fish meal)	APHA Ch. 9.61
	Enterobacteriaceae (Fish oil)	MIMM 8.2

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**Deer Velvet, Fish – Chemistry**

In accordance with the Official Methods of Analysis of AOAC International (latest edition) except where otherwise indicated.

3.1.2	Proximate analysis – Fat	948.15 (modified)
3.1.3	Proximate analysis – Moisture	950.46 (modified)
3.1.4	Proximate analysis – Protein	981.10 (modified)

**Tallow, Fats and Oils**

4.02	FFA (m/m % oleic acid)	Laboratory Handbook for Oil and Fat Analysis 1966
4.03	Peroxide value of fats and oils	AOAC 965.33
4.04	Moisture	AOAC 926.12

**Animal Products in General – Composition  
 (includes vitamins, minerals and other nutrients)**

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) unless otherwise stated.

6.14	Calcium, mineral	In-house digestion / 3125 B
6.15	Chloride or chlorine, mineral	AOAC 937.09 / 935.47
6.16	Copper, mineral	In-house digestion / 3125 B
6.18	Iodide or iodine, mineral	ICP-MS method following TMAH digestion
6.19	Iron, mineral	In-house digestion / 3125 B
6.20	Magnesium, mineral	In-house digestion / 3125 B
6.21	Manganese, mineral	In-house digestion / 3125 B
6.22	Phosphorus, mineral	In-house digestion / 3125 B
6.23	Potassium, mineral	In-house digestion / 3125 B
6.24	Sodium, mineral	In-house digestion / 3125 B
6.25	Zinc, mineral	In-house digestion / 3125 B
6.30	Fatty acid profile including EPA, DHA	AOAC 963.22

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**Animal Products in General – Food Additives and Ingredients**

7.05 Salt (as sodium chloride or chloride) AOAC 937.09 / 935.47

**Animal Products – Chemical Residue Testing (NCRP, NCCP & OMAR)**

8.20 Heavy metals & chemical elements In-house digestion / 3125 B APHA online

8.43 Melamine, dicyandiamide (DCD) USFDA Library No 4421 Vol 24, October 2008 / MacMahon, S. et al (2012) J.Chrom. A 1220, 101-107 (modified) (LC-MS)

8.45 Isoeugenol UPLC-FLR (In-house)

**Seafood Products and Potable/Suitable Water**

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

11.1.2	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	APHA 9223 B
11.2.1	Faecal coliforms	Part III
11.2.3	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	Part III
	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	APHA 9223 B
11.3.1	Faecal coliforms	Part III
11.3.3	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	Part III
	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	APHA 9223 B
11.4.1	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	Part III (+EC-MUG)
	Total coliforms (coliform bacteria) / <i>Escherichia coli</i>	APHA 9223 B
11.5.3	Total Plate Count	APHA Comp. Ch. 8
11.5.4	<i>Staphylococcus aureus</i>	AOAC 2003.07
	<i>Staphylococcus aureus</i>	AOAC 2003.11
	<i>Staphylococcus aureus</i>	ISO 6888-1:2021
11.5.6	<i>Vibrio parahaemolyticus</i> – MPN	FDA BAM online

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	<i>Vibrio parahaemolyticus</i> – P/A	FDA BAM online (modified)
11.5.7	Heavy metals including mercury	In-house digestion / 3125 B APHA online
11.5.8	Histamine	LC, Cinquina et al, 2003. Journal of Chromatography A, 1032, pages 79-82 (modified)
	Histamine	In-house by UHPLC-MS
11.5.9	Total Volatile Basic Nitrogen (TVB-N)	Journal of Food Protection 52, Issue 6:1989
11.5.10	<i>Escherichia coli</i>	Enumeration of <i>E. coli</i> in Molluscan Bivalve Shellfish, MPI method
	<i>Escherichia coli</i>	APHA Comp Ch. 9.93 (modified)
11.5.11	Salmonella	AOAC 2016.01
	Salmonella	ISO 6579-1:2017 (amendment 1:2020)
11.5.12	<i>Vibrio cholera</i> – P/A	FDA BAM online
11.6.1	Faecal coliforms	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 6579-1:2017 (amendment 1:2020)
11.6.4	<i>Vibrio parahaemolyticus</i> – MPN	FDA BAM online
	<i>Vibrio parahaemolyticus</i> – P/A	FDA BAM online (modified)
11.6.6	Heavy metals	In-house digestion / 3125 B APHA online
11.6.7	Aerobic Plate Count	APHA Comp. Ch. 8
11.6.8	<i>Staphylococcus aureus</i>	AOAC 2003.07
	<i>Staphylococcus aureus</i>	AOAC 2003.11
	<i>Staphylococcus aureus</i>	ISO 6888-1:2021
11.6.9	<i>Vibrio cholera</i> – P/A	FDA BAM online
11.7.1	Paralytic Shellfish Poisoning (PSP)	J.AOAC (2015), Int 98:(3) 609-621
	Paralytic Shellfish Poisoning (PSP)	J.AOAC (2015), Int 98:(3) 609-621 (modified)
11.7.2	Diarrhetic Shellfish Poisoning (DSP)	JAOAC (2005) Int 88:761-772 (modified)
11.7.3	Neurotoxic Shellfish Poisoning (NSP)	JAOAC (2005) Int 88:761-772 (modified)
11.7.4	Amnesiac Shellfish Poisoning (ASP)	JAOAC (2005) Int 88:761-772 (modified)
11.7.5	Pectenotoxins (PTX)	JAOAC (2005) Int 88:761-772 (modified)
11.7.6	Yessotoxin Shellfish Poisoning (YTX)	JAOAC (2005) Int 88:761-772 (modified)
11.7.7	Azaspiracid Poison (AZP)	JAOAC (2005) Int 88:761-772 (modified)
11.7.8	Phytoplankton in sea water	In house based on UNESCO Phytoplankton

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		Manual (1978) and IOC Manual & Guides 55 (2010)
11.8.1	<i>Escherichia coli</i>	Enumeration of <i>E. coli</i> in Molluscan Bivalve Shellfish, MPI method
11.8.2	Salmonella Salmonella	AOAC 2016.01 ISO 6579-1:2017 (amendment 1:2020)
11.8.5	<i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i>	AOAC 2016-07 AOAC 2016-08 Biocontrol VIP FDA BAM online
11.8.6	Aerobic Plate Count	APHA Comp. Ch. 8

**Dairy Products – Microbiology**

**(milk, milk powders, cheese, ice cream)**

30.5	Aerobic Plate Count Aerobic Plate Count Aerobic Plate Count	AOAC 986.33 ISO 4833-1:2013 ISO 4833-2:2013
30.6	Coliforms (total)	ISO 4832:2006
31.1	Aerobic Plate Count Aerobic Plate Count Aerobic Plate Count at 30°C Aerobic Plate Count at 30°C	AOAC 986.33 AOAC 989.10 ISO 4833-1:2013 ISO 4833-2:2013
31.3	Campylobacter	FDA BAM online
31.6	Coliforms (count)	ISO 4832:2006
31.7	<i>Escherichia coli</i>	APHA 9.93 (modified)
31.8	Enterobacteriaceae	APHA 9.62
31.10	<i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i> <i>Listeria monocytogenes</i>	AOAC 2016-07 AOAC 2016-08 FDA BAM online
31.12	Salmonella (detection) Salmonella (detection)	AOAC 2016.01 ISO 6579-1:2017 (amendment 1:2020)
31.14	<i>Staphylococcus aureus</i> , (Staphylococcus, Coagulase Positive) <i>Staphylococcus aureus</i> , (Staphylococcus, Coagulase Positive) <i>Staphylococcus aureus</i> , (Staphylococcus, Coagulase Positive)	AOAC 2003.08 ISO 6888-1:2021 (amendment 2:2018) ISO 6888-3:2003

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31.16	Yeasts and moulds	AOAC 997.02
31.17	<i>Cronobacter sakazakii</i>	ISO / TS 22964:2017

**Dairy Products – Composition  
(includes standards of identity, vitamins, minerals & other nutrients)**

**(milk powders, infant formula and fortified dairy products, ice cream)**

32.9	Minerals: Sodium, Potassium	In-house digestion/APHA 3125 B ICP-MS
32.21	Nucleotides	AOAC 2011.20
32.33	IgG in colostrum products	J. Agric. Food Chem. 2011,59.5248-5256

**References:**

AOAC	Official Methods of Analysis of AOAC International (Online Edition)
APHA Comp.	Compendium for the Microbiological Examination of Foods (5 <sup>th</sup> Edition)
APHA Online Edition	Standard Methods for the Examination of Waters and Wastewater
FDA BAM	US Food and Drug Administration Bacteriological Analytical Manual (8 <sup>th</sup> Edition) and subsequent amendments
IDF	International Dairy Federation
ISO	International Organization for Standardization
USFDA	United States Food and Drug Administration

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