

# Laboratory Accreditation Programmes

Schedule to

## CERTIFICATE OF ACCREDITATION

AsureQuality Limited  
Laboratory Services - Auckland Laboratory

**Client No: 113**

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**Authorised Representative:**

Mrs Vijaya Sharma  
Laboratory Quality Manager

**Programme**

NZFSA Laboratory Approval Scheme - Accredited Laboratory

**Accreditation Number:** 891

**Date of Accreditation:** 2 February 2004

**Conformance Standard**

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

The following sections of the Laboratory Approval Scheme (Amendment 7)

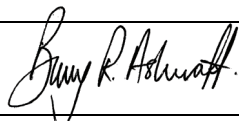
- 8. APPROVED LABORATORIES
- 8.1 LAS Standards for Laboratories
- 8.2 Accreditation/Assessment
- 8.3 Rights and Duties of Approval Laboratories
- 8.4 Suspension/Revocation of Approval
- 8.5 Laboratory Methods/Tests
- 8.6 Signatories
- 8.7 Sampling

**Testing Services Summary**

- |      |  |
|------|--|
| 1.0  | Potable Water Microbiology                                 |
| 2.0  | Meat & Meat Products and Poultry Microbiology/Parasitology |
| 3.0  | Meat Chemistry   |
| 4.0  | Tallows and Fats Chemistry                                 |
| 5.0  | Potable Water Physico-Chemical Parameters                  |
| 6.0  | Food Composition (vitamins, minerals and other nutrients)  |
| 7.0  | Food Additives and Ingredients                             |
| 11.0 | Seafood testing methods and matrices                       |

**Signatories**

Authorised:  
General Manager



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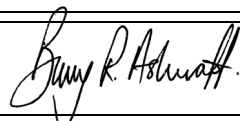
# Laboratory Accreditation Programmes

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Mr Warwick Aspin	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.4.1-2.4.3, 2.6, 2.8, 2.9, 22.1, 23.1, 11.1.1, 11.1.2, 11.5.1-11.5.4, 11.6.2, 11.6.3, 11.8.1-11.8.5
Mrs Hannah Mills-Beale	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1
Mr Peter Griffin	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Mrs Tamara Johnston-Nimmo	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Mrs Anu Kaloti	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Mrs Radmilla Lawford	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Ms Bina Rajesh	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Mrs Andrea Renner	1.1-1.4, 1.5.1, 1.6.1, 2.1.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Mrs Preetika Prasad	1.1-1.4, 1.5.1, 1.6.1, 2.1.2, 2.1.4, 2.2.2, 2.3, 2.8, 2.9, 22.1, 11.1.1, 11.1.2, 11.5.1, 11.5.3, 11.5.4, 11.6.2, 11.8.1, 11.8.3, 11.8.4
Ms Ingrid Houg-Lee	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Ms Justine Inverarity	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Mrs Swati Jain	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Mr Craig McCulloch	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Mrs Khyati Modha	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Mrs Bhama Senthuran	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Miss Beverly Steel	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Ms Eleen Tseng	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Miss Sarah White	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Miss Melissa Young	2.4.1, 2.4.2, 2.4.3, 2.6, 23.1, 11.5.2, 11.6.3, 11.8.2, 11.8.5
Mr Shakeel Ali	3.1
Mrs Anita Goyal	3.1
Mr Peter Thomas	3.1, 4.02-4.04, 5.02-5.04, 5.10, 5.13, 5.14, 6.05, 6.14-6.17, 6.19-6.25, 6.28, 6.30-6.32, 7.01-7.04, 7.06, 7.09, 7.10, 11.5.8, 11.5.9
Mr Vinod Patel	3.1, 4.02-4.04, 5.02-5.04, 5.10, 5.13, 5.14, 6.29, 7.03, 7.04, 7.10
Dr George Joseph	3.1, 4.02-4.04, 5.02-5.04, 6.01, 6.06, 6.11, 6.12, 6.17, 6.26-6.31, 7.01, 7.02, 7.06, 7.09
Ms Rajnish Sen	3.1, 4.02-4.04, 6.15, 6.31, 6.32, 7.01-7.04, 7.10
Mr Kristoph Cave	3.1, 4.02-4.04, 6.15, 6.31, 6.32, 7.01-7.04, 7.10, 11.7.2, 11.7.4
Ms Karishma Charan	3.1.1, 3.1.2, 3.1.3, 3.1.4
Mr Ronil Prasad	3.1.1, 3.1.2, 3.1.3, 3.1.4
Mrs Joy Argano	4.02-4.04
Mrs Deepa Dias Kadawatha-Arachchi	4.02-4.04
Ms Shalini Wadhawan	4.02-4.04
Mrs Sunita Devi	5.02-5.04, 5.10

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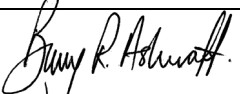
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Mr Lawrence Pickston	5.17-5.23, 5.25-5.33, 6.14, 6.16, 6.18-6.25, 11.5.7
Mr Pathik Vyas	6.01-6.04, 6.06, 6.10-6.13, 6.18, 6.26, 6.27
Mrs Sarita Vyas	6.01-6.06, 6.10-6.14, 6.16, 6.19-6.27, 11.5.7
Miss Sheena Fyfe	6.01, 6.11-6.13, 7.01, 7.02, 11.7.4
Ms Rhonda Lennard	6.02, 6.03, 6.04, 6.06, 6.10, 6.13, 6.27
Ms Shanel Ram	6.05, 6.28, 6.30, 7.01, 7.02, 7.06, 7.09, 11.5.8, 11.5.9
Mrs Kanthi Mupnar	7.01, 7.02, 11.5.8, 11.5.9

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Schedule to  
**CERTIFICATE OF ACCREDITATION**

AsureQuality Limited  
NZFSA Laboratory Approval Scheme - Accredited Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation No 891

**SECTION 1: MEAT & POULTRY INDUSTRY OFFICIAL TESTS**

**1.0 Potable Water Microbiology**

In accordance with MIMM: Microbiological Methods for the Meat Industry (4<sup>th</sup> Edition).

1.1	Total coliforms	11.3
1.1.1	Total coliforms/ <i>E. coli</i>	11.3, 11.5
1.2	Faecal coliforms	11.4
1.3	Standard plate count (22°C/72hr)	11.6
1.4	Standard plate count (37°C/48hr)	11.6
1.5.1	Enterococci	11.9
1.6.1	<i>Clostridium perfringens</i>	11.A3

**2.0 Meat and Meat Products and Poultry Microbiology/Parasitology**

In accordance with MIMM: Microbiological Methods for the Meat Industry (4<sup>th</sup> Edition) and the following NZ Food Safety Authority (Animal Products) Schedule 1 Technical Procedures for the National Microbiological Database

- Farmed Animals; excluding deer and rabbits
- Cervine; excluding feral deer
- Poultry (Broilers only)

**2.1 Aerobic Plate Count at 30°C**

2.1.1	Meat and meat preparations	MIMM 6
2.1.2	NMD swabs/meat (spread plate)	NMD 4.7.2 with sampling NMD 3
2.1.4	NMD swabs/meat (spiral plater)	NMD 4.7.4 with sampling NMD 3

**2.2 *Escherichia coli***

2.2.2	NMD swabs/meat (Petrifilm)	NMD 4.8 with sampling NMD 3
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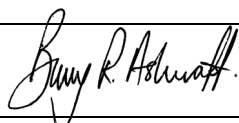
**2.3 *Staphylococcus aureus***

<i>Staphylococcus aureus</i> (meat/meat preparations)	MIMM 7.8
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**2.4 Salmonella**

2.4.1	Meat and meat preparations	MIMM 7.7
2.4.2	Beef, veal & pig meat	ISO 6579:2002(E) MIMM 7.7 with MKTTn in parallel
2.4.3	NMD swabs/meat	NMD 4.9 with sampling NMD 3

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4.02	Free fatty acids (m/m % oleic acid)	Ca 5a-40
4.03	Peroxide	Cd 8b-90
4.04	Moisture	Ca 2c-25

**5.0 Potable Water Physico-Chemical Parameters**

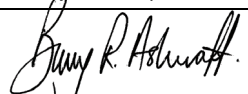
In accordance with APHA Standard Methods for Examination of Water and Wastewater (21st Edition).

5.02	Conductivity	2510 B
5.03	pH (hydrogen ion concentration)	4500-H B
5.04	Turbidity	2130 B
5.10	Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> A
	Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> B
	Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> C
	Ammoniacal nitrogen (ammonium)	4500-NH <sub>3</sub> F
5.13	Nitrate	4500-NO <sub>3</sub> E
5.14	Nitrite	4500-NO <sub>2</sub> B
5.17	Aluminium	3125 B
5.18	Arsenic	3125 B
5.19	Boron	3125 B
5.20	Cadmium	3125 B
5.21	Calcium	3125 B
5.22	Chromium	3125 B
5.23	Copper	3125 B
5.25	Iron	3125 B
5.26	Lead	3125 B
5.27	Magnesium	3125 B
5.28	Manganese	3125 B
5.29	Mercury	3125 B
5.30	Potassium	3125 B
5.31	Sodium	3125 B
5.32	Selenium	3125 B
5.33	Zinc	3125 B

**6.0 Food Composition (vitamins, minerals and other nutrients)**

In accordance with the Official Methods of Analysis of AOAC International (18<sup>th</sup> Edition).

6.01	Vitamin A (retinol)
6.02	Vitamin B1 (thiamine)
6.03	Vitamin B2 (riboflavin)
6.04	Vitamin B3 (niacin/nicotinic acid)
6.05	Vitamin B5 (pantothenic acid)
6.06	Vitamin B6 (pyridoxine)
6.10	Vitamin C (ascorbic acid)
6.11	Vitamin D3 (cholecalciferol)
6.12	Vitamin E (alpha-tocopherol)
6.13	Vitamin K (menaquinone)

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- 6.14 Calcium
- 6.15 Chloride
- 6.16 Copper
- 6.17 Fluoride
- 6.18 Iodide
- 6.19 Iron
- 6.20 Magnesium
- 6.21 Manganese
- 6.22 Phosphorus
- 6.23 Potassium
- 6.24 Sodium
- 6.25 Zinc
- 6.26 Choline
- 6.27 Taurine
- 6.28 Cholesterol
- 6.29 Dietary fibre (total)
- 6.30 Fatty acid profile
- 6.31 pH
- 6.32 Sulphated ash

**7.0 Food Additives and Ingredients**

In accordance with the Official Methods of Analysis of AOAC International (18<sup>th</sup> Edition).

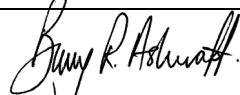
- 7.01 Benzoate/benzoic acid
- 7.02 Sorbate/sorbic acid
- 7.03 Nitrate
- 7.04 Nitrite
- 7.06 Sucrose
- 7.09 Sugar profile
- 7.10 Sulphur dioxide/sulphates

**SECTION 2: SEAFOOD TESTING METHODS AND MATRICES**

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

**11.1 Potable Water**

- |        |                  |  |
|--------|------------------|--|
| 11.1.1 | Faecal coliforms | APHA (21 <sup>st</sup> Edition) 9221 E |
|        | Faecal coliforms | APHA (21 <sup>st</sup> Edition) 9222 D |
| 11.1.2 | Total coliforms  | APHA (21 <sup>st</sup> Edition) 9221 B |
|        | Total coliforms  | APHA (21 <sup>st</sup> Edition) 9222 B |
|        | Total coliforms  | APHA (21 <sup>st</sup> Edition) 9223 B |

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**11.5 All Fish**

11.5.1	Faecal coliforms	Part III
11.5.2	Salmonella	FDA BAM Ch.5
	Salmonella	TECRA
	Salmonella	ISO 6579:2002(E)
11.5.3	Standard Plate Count	FDA BAM Ch.3
	Standard Plate Count	APHA Comp. Ch.7
11.5.4	<i>Staphylococcus aureus</i>	FDA BAM Ch.12
11.5.7	Mercury	ICP MS Acid digest
11.5.8	Histamine	Leatherhead
11.5.9	Total volatile basic nitrogen (TVB-N)	Zlebensm

**11.6 Bivalve molluscan shellfish (uncooked)**

11.6.2	<i>E coli</i>	NZFSA Guidelines
11.6.3	Salmonella	ISO 6579:2002(E)

**11.7 Shellfish Biotoxins**

11.7.2	Diarrhetic Shellfish Poison (DSP)	NZ Marine Biotoxin
11.7.4	Amnesiac Shellfish Poison (ASP)	NZ Marine Biotoxin

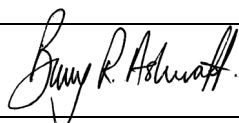
**11.8 Cooked Seafood Product**

11.8.1	<i>E coli</i>	APHA Comp. Ch.8
	<i>E coli</i>	APHA Comp. Ch.8.935
11.8.2	Salmonella	FDA BAM Ch.5
	Salmonella	TECRA
	Salmonella	ISO 6579:2002(E)
11.8.3	<i>Staphylococcus aureus</i>	FDA BAM Ch.12
11.8.4	Standard Plate Count	FDA BAM Ch.3
	Standard Plate Count	APHA Comp. Ch.7
11.8.5	<i>Listeria monocytogenes</i>	FDA BAM Ch.10
	<i>Listeria monocytogenes</i>	TECRA

**References:**

APHA (21 <sup>st</sup> Edition)	Standard Methods for the Examination of Water and Wastewaters (21 <sup>st</sup> Edition)
APHA Comp.	Compendium of Methods for the Microbiological Examination of Foods (4 <sup>th</sup> Edition)
FDA BAM	US Food and Drug Administration Bacteriological Analysis of Foods (8 <sup>th</sup> Edition)
Leatherhead	Analytical Methods, Leatherhead Food Research Association (2 <sup>nd</sup> Edition)
Zlebensm	Zlebensm Unters Forsch 189 (1989) pp. 309-306
NZ Marine Biotoxin	New Zealand Marine Biotoxin Management Board, National Marine Biotoxin Management Plan (August 1996) Appendix II

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