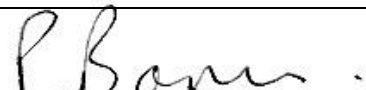


Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION																			
Eurofins ELS Wellington PO Box 36105, Wellington Mail Centre, Lower Hutt, 5045 85 Port Rd, Seaview, Lower Hutt, 5010 Telephone 04 576-5016	Client No. 1701 www.eurofins.co.nz																		
Authorised Representative Mr Rob Deacon General Manager - Environmental Programme Biological Testing Laboratory Accreditation Number 639																			
Initial Accreditation Date 28 February 1997																			
Conformance Standard NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories																			
Testing Services Summary General Biology 1.11 Foods 1.12 Waters 1.71 Biological Condition Sampling 1.12 Waters																			
Key Technical Personnel General Biology <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Mrs Saadia Maqsood</td> <td>1.11, 1.12; (selected), 1.71</td> </tr> <tr> <td>Ms Julie McMillan</td> <td>1.12 (selected)</td> </tr> <tr> <td>Mrs Maria Norris</td> <td>1.11, 1.12, 1.71</td> </tr> <tr> <td>Mrs Sunita Raju</td> <td>1.11, 1.12, 1.71</td> </tr> <tr> <td>Mrs Pathma Ranjanie</td> <td>1.11, 1.12; (selected), 1.71</td> </tr> <tr> <td>Mrs Juana Tamayo</td> <td>1.11, 1.12 (selected)</td> </tr> <tr> <td>Mrs Yuemei Yu</td> <td>1.11, 1.12; (selected), 1.71</td> </tr> </table> Sampling <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Mr Rob Deacon</td> <td>1.12 (a)(b)(c)(d)(e)(f)(g)</td> </tr> <tr> <td>Ms Anne Rodgers</td> <td>1.12 (a)(b)(c)(d)(e)(g)</td> </tr> </table>		Mrs Saadia Maqsood	1.11, 1.12; (selected), 1.71	Ms Julie McMillan	1.12 (selected)	Mrs Maria Norris	1.11, 1.12, 1.71	Mrs Sunita Raju	1.11, 1.12, 1.71	Mrs Pathma Ranjanie	1.11, 1.12; (selected), 1.71	Mrs Juana Tamayo	1.11, 1.12 (selected)	Mrs Yuemei Yu	1.11, 1.12; (selected), 1.71	Mr Rob Deacon	1.12 (a)(b)(c)(d)(e)(f)(g)	Ms Anne Rodgers	1.12 (a)(b)(c)(d)(e)(g)
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General Biology

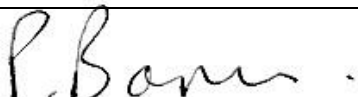
1.11 Foods

- (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**
- (h) **Fish and fish products**
- (i) **Eggs and egg products**
- (k) **Non-alcoholic beverages**
- (q) **Animal feeds**

In accordance with FDA Bacteriological Analytical Manual (Online) except where otherwise indicated.

Aerobic plate count	AOAC 990.12
Aerobic plate count	APHA Ch.6 & 7
Aerobic plate count spiral plater	MIMM 6.0
Aerobic plate count spiral plater	MIMM 6.0 (modified)
Aerobic plate count	MIMM 6.0 (modified)
Anaerobic plate count	APHA Ch.7/23 (modified)
<i>Bacillus cereus</i>	APHA Ch.32
Campylobacter	Ch.7
Campylobacter (poultry broiler caeca)	In-house (based on NMD procedures)
Coliforms	Ch.4
Coliforms	AOAC 991.14
<i>E coli</i>	Ch.4
<i>E coli</i>	AOAC 991.14
Enterobacteriaceae	AOAC 2003.01
Faecal coliforms	Ch.4
Lactic acid bacteria	MIMM 9.7
Lactic acid bacteria	APHA Ch.19.522
Listeria	Ch.10
Listeria	Clearview
Listeria	Reveal
Listeria	Bio-control Assurance GDS
Listeria	3M MDS
Listeria (ELISA)	Biocontrol Assurance EIA
<i>Listeria monocytogenes</i>	Ch.10
<i>Listeria monocytogenes</i>	Clearview
<i>Listeria monocytogenes</i>	ISO 11290-2:2017
<i>Listeria monocytogenes</i>	Reveal

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<i>Listeria monocytogenes</i> (PCR)	BACGene
<i>Listeria</i> species (PCR)	BACGene
Salmonella	BACGene
Salmonella	Bio-control Assurance GDS
Salmonella	3M MDS
Salmonella (ELISA)	Biocontrol Transia Plate Salmonella Gold
<i>Staphylococcus aureus</i>	Ch.12
Yeasts and moulds	Petrifilm
Yeasts and moulds	MIMM 9.5
Yeasts and moulds	FDA BAM

(g) Meat, poultry and derived products

Aerobic plate count (swabs & bulk sample)	MIMM 6.6
Aerobic plate count (swabs & bulk sample)	MIMM 6.6 (modified)
<i>Clostridium perfringens</i>	MIMM 7.10
<i>E coli</i> (swabs & bulk sample)	MIMM 8.4
<i>E coli</i> Top 7 Screen (meat)	Biocontrol Assurance GDS MPX Top 7
Enterobacteriaceae	MIMM 7.10
Salmonella	MIMM 7.7
Salmonella	ISO 6579:2002
<i>Staphylococcus aureus</i>	MIMM 7.8

References:

AOAC	Official Methods of Analysis of AOAC International, 20 th Edition
APHA	Compendium of Methods for the Microbiological Examination of Foods (5 th Edition)
MIMM	Meat Industry Microbiological Methods (5 th Edition)
NMD	National Microbiological Databases procedures – August 2015

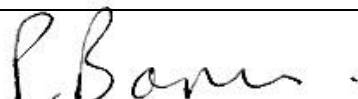
1.12 Waters

- (a) Potable waters**
- (b) Non-potable waters**
- (c) Sewage**
- (d) Effluent and trade wastes**
- (e) Cooling tower and industrial waters**
- (f) Swimming and spa pools**
- (g) Marine waters**

The following tests are in accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated.

E coli - MF 9222 I

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<i>E coli</i> - MPN	9223 B Colilert (10 tube)
<i>E coli</i> - MPN	9223 B Colilert Quantitray
<i>E coli</i> - MPN	9223 B Colilert 51 well Quantitray
<i>E coli</i> - MPN	9223 B Colilert-18 51 well Quantitray
<i>E coli</i> - mTec	9213 D
<i>E coli</i> - P/A	9223 B Colilert
<i>E coli</i> - P/A	ColiTag
<i>E coli</i> - P/A	Readycult
Enterococci - MF	9230 C
Enterococci - MF	USEPA 1600 (2005)
Enterococcus	11.7
Enterococcus	11.9
Faecal coliforms - MF	9222 D
Giardia and Cryptosporidium	EPA 1623 (modified)
Heterotrophic colony count	AS/NZS 4276.3.1:2007 (e) only
Heterotrophic plate count (20°C, 22°C, 35°C, 37°C)	9215 B
Legionella	ISO 11731:2017 (modified)
Legionella species	AS/NZS 3896:1998 (modified)
<i>Pseudomonas aeruginosa</i>	9213 E
<i>Staphylococcus aureus</i>	9213 B
Total coliforms - MF	9222 B
Total coliforms - MPN	9223 B Colilert (10 tube)
Total coliforms - MPN	9223 B Colilert Quantitray
Total coliforms - MPN	9223 B Colilert-18 51 well Quantitray
Total coliforms - MPN	9223 B Colilert 51 well Quantitray
Total coliforms - P/A	9223 B Colilert
Total coliforms - P/A	ColiTag
Total coliforms - P/A	Readycult

1.71 Biological Condition

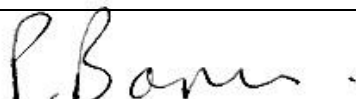
(a) Air

Aerobic plate count	MIMM 6
Yeasts and mould	AOAC 997.02

(b) Plant hygiene evaluation

Aerobic plate count	MIMM 6
Campylobacter	FDA BAM 7
<i>Clostridium perfringens</i>	MIMM 7.10
<i>E coli</i>	MIMM 8.4
Enterobacteriaceae	MIMM 8.2
Listeria	Neogen Reveal
Listeria	Oxoid Clearview

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<i>Listeria monocytogenes</i> (PCR)	BACGene
<i>Listeria monocytogenes</i>	ISO 11290-2:2017
Listeria species (PCR)	BACGene
Listeria species	MIMM 7.5
Salmonella	BACGene
Salmonella	MIMM 7.7
<i>Staphylococcus aureus</i>	MIMM 7.8
Yeasts and mould	AOAC 997.02

References:

AOAC	Official Methods of Analysis (20 th Edition)
AS/NZS	Australian / New Zealand Standards
MIMM	Meat Industry Microbiological Methods (5 th Edition)
USEPA	United States Environmental Protection Agency

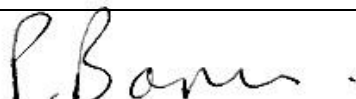
Sampling

1.12 Waters

- (a) Potable waters
- (b) Non-potable waters e.g. receiving waters, ground waters
- (c) Sewage
- (d) Effluent and trade wastes
- (e) Cooling tower and industrial waters
- (f) Swimming and spa pools
- (g) Marine waters

Sampling in accordance with in-house procedures based on AS/NZS 5667

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