Schedule to CERTIFICATE OF ACCREDITATION



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Authorised Repre Mrs Anneke van La Quality Manager –	aanen			
Programme Biological Testing I	_aboratory			
Accreditation Nur	nber 40	Initial Accreditation	on Date 4 October 197	76
Laboratory Servic General Microb 1.03 1.11 1.12 1.13	-	-	Dratories	
Micro-Algae 1.81	Environmental Biology – Micro	o-Algae		
	Ygy Foods Biological Condition			
Key Technical Pe	rsonnel			
General Microb Ms Pam Curtis Mr Mark Englefield Mrs Krishna Harris	1.03, 1 1.03, 1 1.03, 1	.11, 1.12, 1.13, 1.71 .11, 1.12, 1.13, 1.71 .11, 1.12, 1.13, 1.71 .11, 1.12, 1.13, 1.71 .11, 1.12, 1.13, 1.71		
Mr Ryan Hunter				

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Mr Sarbjit Singh	1.03, 1.11, 1.12, 1.13, 1.71
Micro-Algae	
Ms Sacha Astill	1.81 (marine; selected)
Mrs Penny Harrison	1.81 (marine; selected)
Ms Simone Jarrett	1.81 (marine; selected, freshwater; selected)
Ms Rita Lee	1.81 (marine; selected)
Mr Daniel List	1.81 (freshwater; selected)
Ms Catherine Moisan	1.81 (marine; selected)
Ms Sumali Nanayakkara	1.81 (freshwater; selected)
Ms Sally Robinson	1.81 (marine; selected)
Molecular Biology	
Ms Pam Curtis	1.11, 1.71
Mr Mark Englefield	1.11, 1.71
Mrs Krishna Harris	1.11, 1.71
Mr Ryan Hunter	1.11, 1.71
Mr Sarbjit Singh	1.11, 1.71

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Cawthron Institute Biological Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 40

General Microbiology

1.03 Drugs and Pharmaceuticals

(j) Nutriceuticals

These terms of accreditation provide for the performance of the following tests to methods such as those from the references listed below except where otherwise indicated.

APHA Ch. 8
BP
APHA Ch. 31 (modified)
BP
APHA 9.72
ISO / TS 22964:2017
APHA 9.93 (modified)
BP
APHA 9.61
APHA 9.62
APHA 9.81 (modified)
APHA Standard Methods for Dairy Products 17 th Edition:2004 (modified)
FDA BAM online
BP
BP
ISO 6579-1:2017 (amendment 1:2020)
BP
AOAC 2003.07
ISO 6888-1:2021 (amendment:2018)
Customer supplied method
BP

1.11 Foods

- (a) Cereals and cereal products
- (c) Nuts, fruits, vegetables and derived products
- (d) Sauces, herbs, spices and condiments
- (f) Dairy products
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (j) Alcoholic beverages
- (k) Non-alcoholic beverages

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Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION



Cawthron Institute Biological Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 40

(p) Canned foods

(q) Animal feeds

These terms of accreditation provide for the performance of the following tests to methods such as those from the references listed below except where otherwise indicated.

Aerobic plate count Aerobic Plate Count (Petrifilm) Aerobic Plate Count at 30°C Aerobic Plate Count at 30°C Anaerobic viable count Bacillus cereus Campylobacter Clostridium perfringens Coagulase positive Staphylococci Coagulase positive Staphylococci Coagulase positive Staphylococci Coliforms Coliforms Coliforms (Direct Plating) Cronobacter sakazakii E. coli and Coliforms (LST-MUG) E. coli E. coli Enterobacteriaceae Enterobacteriaceae Enterobacteriaceae Faecal coliforms – MPN Lactobacillus count Listeria monocytogenes Listeria monocytogenes Listeria monocytogenes Listeria species Listeria species Salmonella Shigella Sulphite reducing anaerobes Vibrio cholerae – P/A Vibrio parahaemolyticus - MPN Vibrio parahaemolyticus – P/A Vibrio vulnificus – MPN Vibrio vulnificus – P/A Yeasts and moulds Yeasts and moulds

APHA Ch. 8 AOAC 989.10 ISO 4833-1:2013 ISO 4833-2:2013 APHA Ch. 6 / Ch. 8 APHA Ch. 31 (modified) FDA BAM online ISO 7937:2004 ISO 6888-1:2021 (2003 Amendment) AOAC 2003.07 AOAC 2003.11 APHA 9.72 APHA 9.935 ISO 4832:2006 ISO / TS 22964:2017 ISO 11866-1:2005 (modified) APHA 9.93 (modified) APHA 9.935 APHA 9.61 APHA 9.62 APHA 9.631 APHA 9.81 (modified) APHA standard methods for Dairy Products 17th Ed:2004 (modified) **Biocontrol VIP** FDA BAM online ISO 11290-2:2017 **Biocontrol VIP** FDA BAM online ISO 6579-1:2017 (amendment 1:2020) APHA Ch. 37 ISO 15213:2003 FDA BAM online FDA BAM online FDA BAM online (modified) FDA BAM online FDA BAM online (modified) AOAC 997.02 BP

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Laboratory Accreditation Programmes

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Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION



Cawthron Institute Biological Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 40

1.71 Biological Condition

(b) Plant hygiene evaluation

These terms of accreditation provide for the performance of the following tests on environmental swabs to methods such as those listed under class of test 1.11 above.

Aerobic viable countAPHColiformsAPHColiformsAPHE. coliAPHE. coliAPHE. coliAPHEnterobacteriaceaeAPHEnterobacteriaceaeAPHListeria monocytogenesBiocListeria speciesBiocListeria speciesBiocListeria speciesFDASalmonellaISOStreptococcus salivarius detection in swabsCustYeasts and MouldsAOA

APHA Ch. 8 APHA 9.72 APHA 9.935 APHA 9.93 (modified) APHA 9.935 APHA 9.62 APHA 9.631 Biocontrol VIP FDA BAM online Biocontrol VIP FDA BAM online ISO 6579-1:2017 (amendment 1:2020) Customer supplied method AOAC 997.02

Micro-Algae

1.81 Environmental Biology – Micro-Algae

(c) Identification of micro-organisms in waters

Marine waters

Identification and counting of marine phytoplankton In-house method based on the UNESCO Phytoplankton Manual (1978) and IOC Manual & Guides 55 (2010)

Identification of Pseudo-nitzschia species using whole cell DNA probes In accordance with Scholin C.A et al 1996, Phycologia 35, 190–197

Freshwater

Phytoplankton: enumeration and identification, relative abundance assessment identification In-house method based on Hotzel and Croombe, 1999

Periphyton: relative abundance assessment and identification In-house method based on Biggs and Kilroy, 2000

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Cawthron Institute Biological Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 40

Cyanobacteria toxin genes: molecular detection of freshwater toxin genes from cyanobacteria in water samples by qPCR In-house method

Molecular 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
- (j) Alcoholic beverages
- (k) Non-alcoholic beverages
- (p) Canned foods
- (q) Animal feeds

Listeria monocytogenes	AOAC 2016-08
Listeria monocytogenes	AOAC 2016-07
Listeria species	AOAC 2016-07
Salmonella (except 1.11 (j))	AOAC 2016.01

1.71 Biological Condition

(b) Plant hygiene evaluation

Listeria monocytogenes	AOAC 2016-08
Listeria monocytogenes	AOAC 2016-07
Listeria species	AOAC 2016-07
Salmonella	AOAC 2016.01

References:

AOAC APHA	AOAC International (Online edition) American Public Health Association "Compendium of Methods for the Microbiological Analysis of Foods" (5 th Edition)
BP FDA BAM	British Pharmacopoeia (Online Edition) US Food and Drug Administration Bacteriological Analytical Manual (8 th Edition) 1995, or

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Cawthron Institute
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SCOPE OF ACCREDITATION
Online Edition and s

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	Online Edition and subsequent amendments
ISO	International Organization for Standardization
MIMM	Microbiological Methods for the Meat Industry (current Edition) and subsequent amendments
Petrifilm	3M Petrifilm (Staph Express, Yeast and Mould, E. coli)

Operations	Manager
Auth	orisation

Date:10/05/23