

Schedule to  
**CERTIFICATE OF ACCREDITATION**

Westland Milk Products

**Client Number 3068**

PO Box 96, Hokitika, 7842  
Walker Place, Hokitika, 7810

**Telephone 03 756-9802**  
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[www.westland.co.nz](http://www.westland.co.nz)

**Authorised Representative**

Ms Vania Gallon  
Laboratory Manager

**Programme**

Dairy Testing Laboratory

**Accreditation Number 559**

**Initial Accreditation Date 8 June 1995**

**Conformance Standard**

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

**Testing Services Summary**

**Chemistry**

9.01  
9.62

Dairy Products - Chemical Tests  
Dairy Products Micronutrients

**Microbiology**

9.02  
9.31

Dairy Products - Microbiological Tests  
Microbiological Condition in Dairy Factories

**Key Technical Personnel**

**Chemistry**

Ms Lisa Frances Geary	9.01 (a; selected)(b)(c; selected)(g; selected)(h; selected)(q)
Ms Vania Gallon	9.01 (a; selected)
Ms Deborah Richards	9.01 (a; selected)
Ms Corrina Lisa Walters	9.01 (a; selected)
Mr Shane Reeves	9.01 (c; selected)(d)(e)(g; selected)(h; selected), 9.62
Mr Dene Irvine	9.01 (c)(d; selected),(e)(g; selected)(h; selected)
Mr Brendon Breeze	9.01 (c; selected)(d; NIR)(g; selected)(h; selected)(q; NIR)

**Microbiology**

Ms Vania Gallon	9.02 (a)(c; selected)(d)(e)(g)(h; selected), 9.31
Ms Deborah Richards	9.02 (a)
Ms Corrina Lisa Walters	9.02 (a)
Ms Stephanie Barker	9.02 (c)(d)(e)(g)(h)(q), 9.31

Authorised:  
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Issue 67 Date: 15/10/13

Page 1 of 10

Schedule to <b>CERTIFICATE OF ACCREDITATION</b>	
Ms Baojun Li	9.02 (c)(d)(e)(g)(h)(q), 9.31
Ms Charlotte Mitchell	9.02 (c)(d)(e)(g)(h)(q), 9.31
Mrs Mireia Sabadell-Molina	9.02 (c)(d)(e)(g)(h)(q), 9.31

Authorised: General Manager 	Issue 67      Date: 15/10/13	Page 2 of 10
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Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products  
Dairy Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 559

## Chemistry

### 9.01 Dairy Products - Chemical Tests

In accordance with current editions of tests published in NZTM3: New Zealand Dairy Industry Chemical Methods Manual, NZTM4: New Zealand Dairy Industry Physical Methods Manual, and NZTM5: New Zealand Dairy Functional Methods Manual except where otherwise indicated.

#### (a) Milk

Ash	3.4.2
Ash	In-house
Fat (Combifoss)	3.8.1
Fat (Combifoss)	IDF 141C:2000
Fat (RG)	3.6.3
Fat (RG)	ISO 1211 / IDF 1:2010 (modified)
Phosphatase	ISO 22160 / IDF 209:2007
Protein (Combifoss)	3.8.1
Protein (Combifoss)	IDF 141C:2000
Protein, total nitrogen (Kjeldahl)	3.15.8
Protein	ISO 8968-2:2001 / IDF 20-2 (modified)
Total solids (Gravimetry)	3.12.15
Total solids	ISO 6731 / IDF 21:2010

#### Skim milk and buttermilk

Fat-RG	ISO 7208 / IDF 22:2008 (modified)
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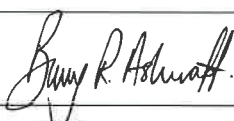
#### (b) Cream

Fat (RG)	ISO 2450 / IDF 16:2008 (modified)
Total solids	ISO 6731 / IDF 21:2010

#### (c) Milk powders

Ash	3.4.2
Ash	In-house
Ash (NIR)	ISO 21543 / IDF 201:2006 (modified)
Background colour	4.3.16
Background colour	In-house based on AS 2300.4.5:1994
Bulk density, packed	4.2.3
Bulk density	GEA Niro Method No. A 2a:2006
Fat (NIR)	3.8.2
Fat (NIR)	ISO 21543 / IDF 201:2006
Fat (RG)	3.6.3

Authorised:  
General Manager



Issue 67 Date: 15/10/13

Page 3 of 10

Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products

Dairy Testing Laboratory

## SCOPE OF ACCREDITATION

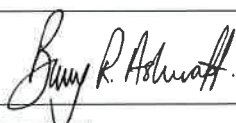
Accreditation Number 559

Fat (RG)	ISO 1736 / IDF 9:2008 (modified)
Foreign matter	4.3.3
Foreign matter	AS 2300.4.5 (modified):1994
Free fat	3.6.7
Free fat	In-house method
Insolubility index (IDF)	4.6.3
Insolubility index	ISO 8156 / IDF 129:2005
Insolubles	4.3.15
Insolubles	In-house based on AS 2300.4.5:1994
Moisture (Gravimetry)	3.12.8
Moisture	IDF 26A:1993
Moisture (NIR)	3.8.2
Moisture (NIR)	ISO 21543 / IDF 201:2006
pH	3.2.8
pH	AS 2300.1.6:2010
Protein (NIR)	3.8.2
Protein (NIR)	ISO 21543 / IDF 201:2006
Protein, total nitrogen (Kjeldahl)	3.15.8
Protein	ISO 8968-2:2001 / IDF 20-2 (modified)
Salt (Titration)	3.9.7
Salt (NIR)	ISO 21543 / IDF 201:2006 (modified)
Salt	In-house based on ISO 15648 / IDF 179:2004
Scorched particles	4.3.17
Scorched particles	AS 2300.4.5:1994 (modified)
Titrateable Acidity	3.2.3
Titrateable Acidity	APHA Ch 15.023, 17 <sup>th</sup> Edition (modified)
Whey protein nitrogen index	3.15.6
Whey protein nitrogen index	AS 2300.4.8:1994 (modified)
Whey protein nitrogen index (NIR)	ISO 21543 / IDF 201:2006 (modified)

### (d) Butter

Fat (by difference)	3.6.9
Fat	ISO 8851-3 / IDF 191-3:2004
Foreign matter	4.3.3
Foreign matter	In-house
Insolubles	4.3.15
Insolubles	In-house
Moisture (Foodscan)	3.8.2
Moisture (Foodscan)	ISO 21543 / IDF 201:2006
Moisture (Gravimetry)	3.12.4
Moisture	ISO 8851-1 / IDF 191-1:2004
pH	3.2.8
pH	ISO 7238 / IDF 104:2004
Salt (Foodscan)	3.8.2
Salt (Foodscan)	ISO 21543 / IDF 201:2006
Salt	3.9.5
Salt	3.9.20

Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 4 of 10

Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products  
Dairy Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 559

Salt	ISO 1738 / IDF 12:2004
Salt	ISO 15648 / IDF 179:2004
Solids-non-fat (Foodscan)	3.8.2
Solids non-fat (Foodscan)	ISO 21543 / IDF 201:2006
Solids-non-fat (Gravimetry)	3.12.19
Solids non-fat	ISO 8851-2 / IDF 191-2:2004

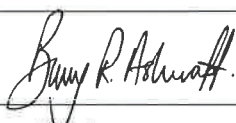
## (e) Anhydrous milk fat

Carotene	3.10.1
Carotene	In-house
Foreign matter	4.3.3
Foreign matter	In-house
Free fatty acids	3.7.3
Free fatty acids	AS 2300.8.4:2004 (modified)
Moisture (Karl Fischer Titration)	3.12.10
Moisture	ISO 5536 / IDF 23:2009 (modified)
Peroxide value	3.7.5
Peroxide value	ISO 3976 / IDF 74:2006 (modified)

## (g) Caseins and caseinates

Ash	3.4.2
Ash	ISO 5545 / IDF90:2008 (modified)
Ash (NIR)	ISO 21543 / IDF 201:2006 (modified)
Ash (fixed)	3.4.1
Ash (fixed)	ISO 5544 / IDF 89:2008 (modified)
Background colour (Casein)	4.3.16
Background colour	ISO 5739 / IDF 107:2003 (modified)
Bulk density, packed	4.2.3
Bulk density	In-house based on GEA Niro Method No. A 2a:2006
Calcium	3.9.12
Calcium	In-house method
Fat (NIR)	3.8.2
Fat (NIR)	ISO 21543 / IDF 201:2006
Fat (SBR)	3.6.4
Fat (SBR)	ISO 5543 / IDF 127:2004
Foreign matter	4.3.3
Foreign matter	ISO 5739 / IDF 107:2003
Free acidity	3.2.1
Free acidity	ISO 5547 / IDF 91:2008 (modified)
Insolubles	4.3.15
Insolubles	ISO 5739 / IDF 107:2003 (modified)
Lactose	3.5.4
Lactose	ISO 5548 / IDF 106:2004 (modified)
Moisture (Gravimetry)	3.12.17
Moisture (NIR)	3.8.2

Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 5 of 10

Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products

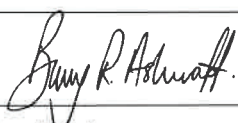
Dairy Testing Laboratory

## SCOPE OF ACCREDITATION

Accreditation Number 559

Moisture (NIR)	ISO 21543 / IDF 201:2006
Moisture	ISO 5550 / IDF 78:2006
Particle size analysis	4.5.4
Particle size	ISO 2591-1:1988-12-01
pH (NIR)	ISO 21543 / IDF 201:2006 (modified)
pH	3.2.8
pH	AS 2300.1.6:2010
pH	AS 2300.1.6:2010 (modified)
Protein, total nitrogen (Kjeldahl)	3.15.8
Protein (Dry basis)	3.15.12
Protein	ISO 8968-2:2001 / IDF 20-2 (modified)
Protein (NIR)	3.8.2
Protein (NIR)	ISO 21543 / IDF 201:2006
Scorched particles	4.3.17
Scorched particles	ISO 5739 / IDF 107:2003
<b>(h) Whey products</b>	
Ash	3.4.2
Ash	In-house
Ash (NIR)	ISO 21543 / IDF 201:2006 (modified)
Background colour	4.3.16
Background colour	In-house based on AS 2300.4.5:1994
Bulk density, packed	4.2.3
Bulk density	In-house based on GEA Niro Method No. A 2a:2006
Fat (NIR)	3.8.2
Fat (NIR)	ISO 21543 / IDF 201:2006
Fat (SBR)	3.6.4
Fat (SBR)	ISO 5543 / IDF 127:2004 (modified)
Foreign matter	4.3.3
Foreign matter	AS 2300.4.5:1994 (modified)
Insolubles	4.3.15
Insolubles	In-house based on AS 2300.4.5:1994
Moisture (Gravimetry)	3.12.17
Moisture (NIR)	3.8.2
Moisture (NIR)	ISO 21543 / IDF 201:2006
Moisture	ISO 5550 / IDF 78:2006 (modified)
pH (NIR)	ISO 21543 / IDF 201:2006 (modified)
pH	3.2.8
pH	AS 2300.1.6:2010 (modified)
Protein (NIR)	3.8.2
Protein (NIR)	ISO 21543 / IDF 201:2006
Protein, total nitrogen (Kjeldahl)	3.15.8
Protein	ISO 8968-2:2001 / IDF 20-2 (modified)
Scorched particles	4.3.17
Scorched particles	AS 2300.4.5:1994 (modified)

Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 6 of 10

Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products

Dairy Testing Laboratory

**SCOPE OF ACCREDITATION**

Accreditation Number 559

## (q) Other specified products (Lactoferrin)

Ash	3.4.2
Ash	In-house
Ash (NIR)	ISO 21543 / IDF 201:2006 (modified)
Moisture (Gravimetry)	3.12.17
Moisture	ISO 5550 / IDF 78:2006 (modified)
Protein, total nitrogen (Kjeldahl)	3.15.8
Protein	ISO 8968-2:2001 / IDF 20-2 (modified)

## 9.62 Dairy Products Micronutrients

### q) Other specified products - Nutritional dairy blends (oil filled dairy blends fortified with minerals and vitamins)

The following metals in accordance with in-house method using ICP-OES (by acid digest)

Calcium	Copper	Iron	Manganese
Phosphorus	Potassium	Sodium	

## References

AS	Australian Standards
ISO	International Standards Organisation
APHA	Standard Methods for the Examination of Dairy Products 17 <sup>th</sup> Edition

## Microbiology

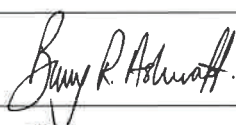
### 9.02 Dairy Products - Microbiological Tests

In accordance with current editions of tests published in NZTM2: New Zealand Dairy Industry Microbiological Methods Manual except where otherwise indicated.

#### (a) Milk

Somatic Cell Count (Fossomatic)	28.2
Somatic Cell Count (Combifoss)	ISO 13366-2 / IDF 148-2:2008
Thermoturic plate count (Direct Plating)	29.1
Thermoturic plate count	APHA 17 <sup>th</sup> Edition Ch 8.030
Aerobic plate count at 30°C	23.1
Aerobic plate count at 30°C	43.1

Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 7 of 10



Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products  
Dairy Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 559

Aerobic plate count at 30°C	ISO 4833:2003 (modified)
Coliforms (Direct Plating)	48.1
Coliforms	ISO 4832:2006 (modified)
Inhibitory substances	Copan
Inhibitory Substances	APHA 17 <sup>th</sup> Edition Ch 12.025
Bactoscan	Manufacturers instructions

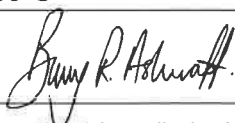
## (c) Milk powders

Aerobic plate count at 30°C	43.1
Aerobic plate count at 30°C	ISO 4833:2003 (modified)
<i>Bacillus cereus</i> (Count)	44.1
Presumptive <i>Bacillus cereus</i> Count at 30°C	ISO 7932:2004 (modified)
<i>Clostridium perfringens</i> (Count)	46.1
<i>Clostridium perfringens</i> (Count)	ISO 7937:2004 (modified)
<i>Clostridium perfringens</i> (Detection)	46.2
<i>Clostridium perfringens</i> Detection	In-house
Coagulase-positive Staphylococci (Count)	47.1
Coagulase-positive Staphylococci Count at 37°C	ISO 6888-1:2003 Amendment 1(modified)
Coagulase-positive Staphylococci (Detection)	47.2
Coagulase-positive Staphylococci Detection	ISO 6888-3:2003 (modified)
Coliforms (Count Direct Plating)	48.1
Coliforms (Count)	ISO 4832:2006 (modified)
<i>E coli</i> / Coliforms Detection by LST-MUG	ISO 11866-1 / IDF 170-1:2005 (modified)
<i>E coli</i> and Coliforms (Detection using LST-MUG)	48.5
Enterobacteriaceae (Count)	49.1
Enterobacteriaceae Count at 37°C	ISO 21528-2:2004 (modified)
Enterobacteriaceae Detection at 37°C	ISO 21528-1:2004
<i>Enterobacter sakazakii</i> (Detection)	ISO 22964 / IDF 210:2006
Inhibitory substances	51.1
Inhibitory substances	APHA 17 <sup>th</sup> Edition Ch 12.021
Mesophilic aerobic spore count	59.1
Mesophilic aerobic spore count at 37°C	APHA 17 <sup>th</sup> Edition Ch 8.090 (modified)
Mesophilic anaerobic spore count	59.2
Mesophilic anaerobic spore count	In-house
Sulphite reducing clostridial spore count	59.3 (modified)
Sulphite reducing clostridial spore count	In-house
Thermophilic aerobic spore count	59.4
Thermophilic aerobic spore count	In-house
Thermophilic anaerobic spores	In-house
Thermophilic bacteria (Count at 55°C)	60.1
Thermophilic bacteria Count	APHA 17 <sup>th</sup> Edition Ch 8.040
Yeasts and moulds (Count)	61.1
Yeasts and moulds Count	ISO 6611:2004

## (d) Butter

Aerobic plate count at 30°C	43.1
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Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 8 of 10



Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products  
Dairy Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 559

Aerobic plate count at 30°C	ISO 4833:2003 (modified)
<i>Bacillus cereus</i> (Count)	44.1
Presumptive <i>Bacillus cereus</i> Count at 30°C	ISO 7932:2004 (modified)
Coagulase-positive Staphylococci (Count)	47.1
Coagulase-positive Staphylococci Count at 37°C	ISO 6881-1:2003 Amendment 1(modified)
Coliforms (Count Direct Plating)	48.1
Coliforms Count	ISO 4832:2006 (modified)
<i>E coli</i> / Coliforms Detection by LST-MUG	ISO 11866-1 / IDF 170-1:2005 (modified)
<i>E coli</i> and Coliforms (Detection using LST-MUG)	48.5
Enterobacteriaceae (Count)	49.1
Enterobacteriaceae Count at 37°C	ISO 21528-2:2004 (modified)
Enterobacteriaceae Detection at 37°C	ISO 21528-1:2004
Lipolytic bacteria (Count)	52.1
Lipolytic bacteria Count at 32°C for 48 hours	APHA 17 <sup>th</sup> Edition Ch 8.060
Proteolytic bacteria (Count)	55.1
Proteolytic bacteria Count at 32°C for 72 hours	APHA 17 <sup>th</sup> Edition Ch 8.052
Yeasts and moulds (Count)	61.1
Yeasts and moulds Count	ISO 6611:2004

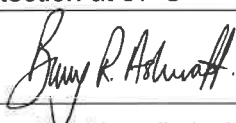
## (e) Anhydrous Milk Fat

Aerobic plate count at 30°C	43.1
Aerobic plate count at 30°C	ISO 4833:2003 (modified)
Presumptive <i>Bacillus cereus</i> Count at 30°C	ISO 7932:2004 (modified)
Coagulase-positive Staphylococci Count at 37°C	ISO 6881-1:2003 Amendment 1(modified)
Coagulase-positive Staphylococci (Detection)	47.2
Coliforms Count	ISO 4832:2006 (modified)
<i>E coli</i> / Coliforms Detection by LST-MUG	ISO 11866-1 / IDF 170-1:2005 (modified)
<i>E coli</i> and Coliforms (Detection using LST-MUG)	48.5
Enterobacteriaceae Count at 37°C	ISO 21528-2:2004 (modified)
Enterobacteriaceae Detection at 37°C	ISO 21528-1:2004
Yeasts and moulds (Count)	61.1
Yeasts and moulds Count	ISO 6611:2004

## (g) Caseins and caseinates

Aerobic plate count at 30°C	43.1
Aerobic plate count at 30°C	ISO 4833:2003 (modified)
Presumptive <i>Bacillus cereus</i> Count at 30°C	ISO 7932:2004 (modified)
Coagulase-positive Staphylococci (Count)	47.1
Coagulase-positive Staphylococci Count at 37°C	ISO 6881-1:2003 Amendment 1(modified)
Coagulase-positive Staphylococci (Detection)	47.2
Coagulase-positive Staphylococci Detection	ISO 6883-3:2003 (modified)
Coliforms (Count Direct Plating)	48.1
Coliforms Count	ISO 4832:2006 (modified)
<i>E coli</i> / Coliforms Detection by LST-MUG	ISO 11866-1 / IDF 170-1:2005 (modified)
<i>E coli</i> and Coliforms (Detection using LST-MUG)	48.5
Enterobacteriaceae Detection at 37°C	ISO 21528-1:2004

Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 9 of 10

Schedule to

# CERTIFICATE OF ACCREDITATION

Westland Milk Products  
Dairy Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 559

Inhibitory substances (Detection)	51.2
Inhibitory Substances	APHA 17 <sup>th</sup> Edition Ch 12.021
Thermophilic bacteria (Count at 55°C)	60.1
Thermophilic bacteria Count	APHA 17th Edition Ch 8.040
Yeasts and moulds (Count)	61.1
Yeasts and moulds Count	ISO 6611:2004
<b>(h) Whey products</b>	
Aerobic plate count at 30°C	43.1
Aerobic plate count at 30°C	ISO 4833:2003 (modified)
Presumptive <i>Bacillus cereus</i> Count at 30°C	ISO 7932:2004 (modified)
Coagulase-positive Staphylococci (Count)	47.1
Coagulase-positive Staphylococci Count at 37°C	ISO 6881-1:2003 Amendment 1(modified)
Coagulase-positive Staphylococci (Detection)	47.2
Coagulase-positive Staphylococci Detection	ISO 6883-3:2003 (modified)
Coliforms Count	ISO 4832:2006 (modified)
<i>E coli</i> / Coliforms Detection by LST-MUG	ISO 11866-1 / IDF 170-1:2005 (modified)
<i>E coli</i> and Coliforms (Detection using LST-MUG)	48.5
Enterobacteriaceae Detection at 37°C	ISO 21528-1:2004
<i>Enterobacter sakazakii</i> (Detection)	ISO 22964/IDF 210:2006
Inhibitory substances (Detection)	51.2
Inhibitory Substances	APHA 17 <sup>th</sup> Edition Ch 12.021
Thermophilic bacteria (Count at 55°C)	60.1
Thermophilic bacteria (Count)	APHA 17 <sup>th</sup> Edition Ch 8.040
Yeasts and moulds (Count)	61.1
Yeasts and moulds Count	ISO 6611:2004

## (q) Other specified products (Colostrum)

<i>Enterobacter sakazakii</i> (Detection)	ISO 22964/IDF 210:2006
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## 9.31 Microbiological Condition in Dairy Factories

In accordance with current editions of tests published in NZTM2: New Zealand Dairy Industry Microbiological Methods of Manual except where otherwise indicated

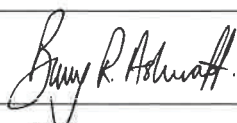
### (a) Air

Exposure plates (Sedimentation)	110.1
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### (c) Environmental Hygiene Evaluation

Enterobacteriaceae (presumptive) count in swabs	ISO 21528-2:2004 (modified)
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Authorised:  
General Manager



Issue 67

Date: 15/10/13

Page 10 of 10