

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
Chemical Testing Laboratory

Accreditation Number: 175

Date of Accreditation: 21 May 1982

Conformance Standard

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

Testing Services Summary

General Chemistry

2.31 Foods
2.36 Agricultural Products and Agricultural Materials

Waters

2.41 Waters

Residues

2.31 Foods
2.32 Drugs and Pharmaceuticals
2.36 Agricultural Products and Agricultural Materials
2.37 Timber and Timber Treatment
2.58 Environmental Monitoring
2.70 Instrumental Techniques

Vitamins

2.31 Foods
2.32 Drugs and Pharmaceuticals
2.36 Agricultural Products and Agricultural Materials
2.70 Instrumental Techniques

ICP

2.05 Clays, Ceramics and Related Materials

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 1 of 17

Schedule to

CERTIFICATE OF ACCREDITATION

2.31	Foods
2.32	Drugs and Pharmaceuticals
2.36	Agricultural Products and Agricultural Materials
2.37	Timber and Timber Treatment
2.41	Waters
2.58	Environmental Monitoring
2.70	Instrumental Techniques
2.82	Other Specified Organic Material

Key Technical Personnel

General Chemistry

Mrs Joy Argano	2.31; selected tests
Mr Kristoph Cave	2.31; selected tests
Mrs Sunita Devi	2.31; selected tests
Mr Timothy Hudson	2.31; selected tests
Mrs Deepa Dias Kadawatha-Arachchi	2.31; selected tests
Ms Shanel Ram	2.31; selected tests
Ms Shalini Wadhawan	2.31; selected tests
Mr Peter Thomas	2.31, 2.36
Mr Shakeel Ali	2.31, 2.36; selected tests
Mrs Anita Goyal	2.31, 2.36; selected tests
Dr George Joseph	2.31, 2.36; selected tests
Mr Ronil Prasad	2.31, 2.36; selected tests
Ms Rajnish Sen	2.31, 2.36; selected tests

Waters

Mr Peter Thomas	2.41
Dr George Joseph	2.41
Mrs Sunita Devi	2.41; selected tests

Residues

Mr Kristoph Cave	2.31; selected tests
Ms Saras Green	2.31; selected tests
Mr Peter Peterson	2.31; selected tests
Ms Jenny Zhang	2.31; selected tests
Ms Shanel Ram	2.31; selected tests, 2.32, 2.36(c); selected tests
Miss Sheena Fyfe	2.31; selected tests, 2.32, 2.36(c); selected tests, 2.58
Dr George Joseph	2.31; selected tests, 2.32, 2.36, 2.37, 2.58, 2.70(a)(b)
Mrs Kanthi Mupnar	2.31, 2.32, 2.36, (2.37; selected tests)
Mr Peter Thomas	2.31, 2.32, 2.36, 2.37, 2.58, 2.70(a)(b)
Mr Pathik Vyas	2.31, 2.37; selected tests, 2.70(b)
Mr Vinod Patel	2.37; selected tests
Mr Lawrence Pickston	2.37; selected tests
Mrs Sarita Vyas	2.37; selected tests

Vitamins

Mr Joseph Fan	2.31, selected tests
Ms Shanel Ram	2.31; selected tests
Ms Jenny Zhang	2.31; selected tests

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 2 of 17

Schedule to

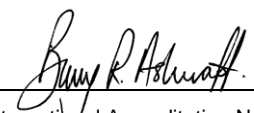
CERTIFICATE OF ACCREDITATION

Mrs Sarita Vyas	2.31, 2.32, 2.36
Mr Nebojsa Jeremijic	2.31, 2.32; selected tests
Mrs Foram Thakar	2.31, 2.32, 2.36; selected tests
Mrs Sheleen Lata	2.31, 2.32, 2.36; selected tests
Miss Sheena Fyfe	2.31, 2.32, 2.36; selected tests
Mr Tony Tsang	2.31, 2.32, 2.36; selected tests
Mr Pathik Vyas	2.31, 2.32; selected tests, 2.70(b)
Mr Peter Thomas	2.31, 2.32, 2.36, 2.70(a)(b)
Dr George Joseph	2.31, 2.32, 2.36; selected tests, 2.70(a)(b)

ICP

Mr Lawrence Pickston	2.05, 2.31, 2.32, 2.36, 2.37, 2.41, 2.58, 2.70, 2.82; selected tests
Miss Purnima Devi	2.05, 2.31, 2.32, 2.36, 2.37, 2.41, 2.58, 2.82; selected tests
Mrs Sarita Vyas	2.05, 2.31, 2.32, 2.36, 2.37, 2.41, 2.58, 2.82; selected tests
Miss Priye Murthi	2.31, 2.32, 2.36, 2.41; selected tests
Mr Pathik Vyas	2.31, 2.32; selected tests
Dr George Joseph	2.31, 2.32, 2.36, 2.37, 2.41, 2.58; selected tests
Mr Peter Thomas	2.31, 2.32, 2.36, 2.37, 2.41, 2.58; selected tests, 2.70(c)
Mr Vinod Patel	2.37

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Authorised: General Manager		Issue 59 Date: 24/09/10	Page 3 of 17
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Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

General Chemistry

2.31 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and their products (including tallow)
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (e) Sugars 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
- (l) Food additives and supplements (vitamin premixes)
- (m) Essential nutrients, including vitamins
- (o) Honey

Actual alcohol strength	OJEC (1990)
Ash	BS 4401:Part 1:1980 / ISO 936-1978
Ash	AOAC 900.02
Ash	AOAC 920.153
Ash	AOAC 923.03
Ash	AOAC 940.26
Ash	AOAC 942.05
Ash	AOCS Ca 11-55
Crude fibre	AOAC 962.09
Dietary fibre (insoluble)	AOAC 991.42
Dietary fibre (soluble)	Calculation by difference
Dietary fibre (total)	AOAC 985.29
Energy	ANZ Food Standards Code 2002 (Amendment No. 2)
Fat	AOAC 960.39(b)
Fat	AOAC 991.36
Fat	IDF 1D:1996
Fat	IDF 5B:1986
Fat	IDF 22C:1996
Fat	ISO 7328 / IDF 116:2008
Fat	ISO 1736 / IDF 9:2008
Fat	ISO 2450 / IDF 16:2008
Fat	ISO 5543 / IDF 127:2004
Fat	AOAC 922.06
Fat	AOAC 920.85
Fat	AOAC 932.06
Fat	AOAC 945.44

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 4 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

Fat	AOAC 948.15
Fat	AOAC 950.54
Fat	AOAC 952.06
Fat	AOAC 954.02
Fat	AOAC 989.05
Fat (meat and bonemeal)	In-house by Accelerated Solvent Extraction (ASE)
Fluoride	JAOAC volume 62, (microdiffusion) (modified)
Fluoride	Fluoride specific ion electrode
Galactose	Boehringer Mannheim enzymatic test kit (R-Biopharm)
Hydroxymethylfurfural (in honey)	AOAC 980.23
Moisture	AOAC 925.10
Moisture	AOAC 925.45B
Moisture	AOAC 930.15
Moisture	AOAC 950.46
Moisture	AOCS Ca 2c-25
Moisture	IDF 26A:1993
Moisture	IDF 78C:1980
Nitrate	BS4401: part 8:1976
Nitrate	AOAC 24.044
Nitrite	BS4401: part 8:1976
Nitrite	AOAC 24.044
Nitrogen	Dumas
Nitrogen	Kjeldahl
Pepsin digestion	AOAC 971.09
Protein	AOAC 930.33
Protein	AOAC 968.06 (Leco)
Protein	AOAC 981.10 (Tecator)
Protein	AOAC 991.20
Protein	AOAC 2001.11
Sulphated ash	BP 2009: Appendix IXA Method I
Sulphites in food	AOAC 990.28
Total alcohol	OJEC (1990)
Total solids (in milk)	AOAC 990.19
Citric acid (j only)	OJEC (1990)
Sorbic acid (j only)	Leatherhead Food RA 2 nd Edition
Sugars (j only)	In-house (by GLC)
Sulphur dioxide (j only)	OJEC (1990)
Total acidity (j only)	OJEC (1990)
Total dry extract (j only)	OJEC (1990)
Volatile acidity (j only)	OJEC (1990)

Fat Products:

Acid value	AOCS Te 1a-64
Acid value	AOCS Cd 3d-63
Acid value	AOCS Ca 5a-40
Bleach test	AOCS Cc 8c-49 (modified)

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 5 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

Bleach test	AOCS Cc 8b-52 (modified)
Colour (red/yellow test)	AOCS Cc 13b-45
FAC colour	AOCS Cc 13a-43
Free fatty acids	AOCS Ca 5a-40
Iodine value	ISO 3961: 1996
Iodine value	BS 684, 2.13:1996
Iodine value	AOCS Cd 1d-92
Iodine value	AOAC 993.20
Iodine value	NZTM 3.10.2
Kirschner	AOCS Cd 5-40
Kirschner	NZTM 3.22.3
Peroxide value	AOCS Cd 8b-90
Polenske	AOCS Cd 5-40
Polenske	NZTM 3.22.3
Reichert Meissel	AOCS Cd 5-40
Reichert Meissel	NZTM 3.22.3
Saponification value	AOCS Cd 3-25
Saponification value	NZTM 3.10.4

Nutrients (raw materials):

Colour (as carotene)	Laboratory Handbook for Oil and Fat Analysis (1966)
Diastatic activity in honey	AOAC 958.09
Insolubility index	AS2300 4.4 (1994)
Moisture in honey	AOAC 969.38
pH	BS4401: Part 9 (1975)
pH	NZTM 3.2.8
pH	AS2300 1.6:1989
Salt	AS2300 6.5 (1990)
Salt moisture ratio	by calculation
Sulphur dioxide	AOAC 990.28

(f) Dairy Product

Ash	AS2300 1.5 (1998)
Ethyl Vanillin	JAOAC volume 83 (2000)
Extraneous matter	AS2300 4.5 (1994)
Fat	AS2300 1.3 (1988)
Fat in dry matter	by calculation
Insolubility index	AS2300 4.4 (1994)
Moisture	AS2300 1.1 (1988)(modified)
Phosphatase activity	AS2300 1.10 (1998)
Protein	AS2300 1.2.1 (1991)
Scorched particles	AS2300 4.5 (1994)
Total solids	AS2300 1.1 (1988)(modified)
Vanillin	JAOAC volume 83 (2000)
Whey Protein Nitrogen Index (WPNI)	AS2300 4.8 (1994)

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 6 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

2.36 Agricultural Products and Agricultural Materials

(c) Stockfoods

Ash	BS4401: Part 1:1980 / ISO 936-1978
Crude fibre	AOAC 962.09
Fat	BS4401: Part 4 (1970)
Moisture	AOAC 930.15
Moisture	AOAC 950.46
Protein	AOAC 981.10 (Tecator)
Protein	AOAC 968.06 (Leco)

References:

AOAC	American Organisation of Analytical Chemists (18 th Edition)
AOCS	American Oil Chemists Society (5 th Edition)
AS/NZS	Australia / New Zealand Standard
BS	British Standards
IDF	International Dairy Federation
ISO	International Organisation for Standardization
JAOAC	Journal of the Association of Official Analytical Chemists
NZTM	New Zealand Dairy Industry Test Methods Manual
OJEC	Official Journal of the European Community

Waters

2.41 Waters

- (a) Potable waters**
- (b) Non-potable waters**

The following tests are in accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (21st Edition) except where otherwise indicated.

Colour - Apparent	2120 B (modified)
Turbidity	USEPA 180.1
Conductivity	2510 B
pH	4500-H ⁺ B
Nitrogen (Ammonia)	4500-NH ₃ A
Nitrogen (Ammonia)	4500-NH ₃ B
Nitrogen (Ammonia)	4500-NH ₃ C

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 7 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

Nitrogen (Ammonia)	4500-NH ₃ F
Nitrogen (Nitrite)	4500-NO ₂ ⁻ B
Nitrogen (Nitrate)	4500-NO ₃ ⁻ I

Residues

2.31 Foods

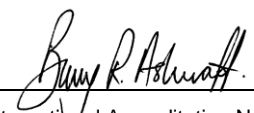
- (a) Cereals and cereal products
- (b) Edible oils, fats and their products (including tallow)
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (e) Sugars and sugar confectionery
- (f) Dairy products
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (j) Alcoholic beverages
- (k) Non-alcoholic beverages
- (l) Food additives and supplements
- (m) Essential nutrients, including vitamins
- (o) Honey

Aflatoxins	RIDASCREEN (ELISA)
Aflatoxins in nuts	AOAC 993.17
Carbohydrates by difference	Calculation
Cholesterol	AOAC 933.08 /970.50 / 970.51
Histamine	Leatherhead Food Analytical Methods Manual
Inositol	In-house (GLC method)
Preservatives (benzoates)	Leatherhead Food RA 2 nd Edition
Preservatives (sorbates)	Leatherhead Food RA 2 nd Edition
Ractopamine	In-house (HPLC)
Sugar profile	In-house (GLC method)
Tilmicosin	In-house (HPLC)

The following for fatty acid profile (including C4-C24) by in-house method (based on JAOAC volume 62 (1985)):

Hydrogenated fat	Monounsaturated fat	Omega 3 fatty acids	Omega 6 fatty acids
Omega 9 fatty acids	Polyunsaturated fat	Saturated fat	Trans fatty acids

(h) Shellfish

Authorised: General Manager		Issue 59	Date: 24/09/10	Page 8 of 17
--------------------------------	---	----------	----------------	--------------

Schedule to

CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

Marine Biotoxins:

In accordance with methodologies published in the New Zealand Marine Biotoxin Management Board, National Marine Biotoxin Management Plan (August 1996), Appendix III:

- Amnesic Shellfish Poisoning (ASP, Domoic acid) toxin (HPLC)
- Diarrhetic Shellfish Poisoning (DSP) toxin confirmation (ELISA)
- Neurotoxic Shellfish Poisoning (NSP) toxin confirmation (extraction only)
- NSP/DSP Screen (extraction only)
- Paralytic Shellfish Poisoning (PSP) toxin (extraction only)

2.32 Drugs and Pharmaceuticals

(h) Medicinal and veterinary preparations

Monensin	In-house method (based on Eli Lilly)
Narasin	In-house method (based on Eli Lilly)
Nicarbazin	In-house method (based on Eli Lilly)
Salinomycin	JAOAC; volume 71 (1988)

2.36 Agricultural Products and Agricultural Materials

(c) Stockfoods

Monensin	In-house method (based on Eli Lilly)
Narasin	In-house method (based on Eli Lilly)
Nicarbazin	In-house method (based on Eli Lilly)
Salinomycin	JAOAC, volume 71, (1988)
Tylosin	In-house (based on Eli Lilly DE 0112)

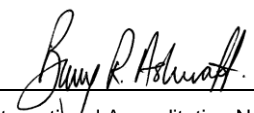
(j) Residues in agricultural products and related materials

Organochlorine pesticides by in-house method including:

- BHC's
- Dieldrin
- DDT and metabolites
- Isomers (including p,p'-DDD, o,p-DDT, p,p'-DDT, p,p'-DDE)

2.37 Timber and Timber Treatment

(a) Timber

Authorised: General Manager		Issue 59	Date: 24/09/10	Page 9 of 17
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Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

3 Iodo 2 Propynyl n-Butyl Carbamate	In-house method (based on AS/NZS 1605:2000)
Cyproconazole	In-house method (based on AWPA A28-05)
Imidacloprid	In-house method (based on AWPA A28-05)
Light Organic Solvent-borne Preservatives	In-house (HPLC)
Permethrin	In-house method (based on AS/NZS 1605:2000)
Propiconazole	AWPA A28-05
Sapwood / Heartwood	In-house method (based on AS/NZS 1605:2000)
Tebuconazole	AWPA A28-05

2.58 Environmental Monitoring

(b) Air

Aldehydes	USEPA 0011
Formaldehyde	NIOSH 2016
Glutaraldehyde	NIOSH 2532

2.70 Instrumental Techniques

(a) Gas Chromatography

(b) High performance liquid chromatography

All techniques pertain to classes of test 2.31, 2.32, 2.36 as detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ logo. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

References:

AS/NZS	Australia / New Zealand Standard
AWPA	American Wood Protection Association
JAOAC	Journal of the Association of Official Analytical Chemists
NIOSH	National Institute for Occupational Safety and Health (4 th Edition)
USEPA	United States Environmental Protection Agency

Vitamins

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 10 of 17

Schedule to

CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

2.31 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and their products (including tallow)
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (e) Sugars 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
- (l) Food additives and supplements
- (m) Essential nutrients, including vitamins
- (o) Honey

Vitamin B5 JMA, 1 (1985) 39 (GC)

Fat Soluble Vitamins:

Beta carotene COST 91, (1986)
 Beta carotene EN12812-3:1999
 Choline AOAC 999.14 (18th Edition)
 Vitamin A COST 91, (1986) (modified)
 Vitamin D3 COST 91, (1986)
 Vitamin D3 JMA 1, (1985)
 Vitamin E COST 91, (1986)
 Vitamin K1 JAOAC volume 83
 Vitamin K1 AOAC 999.15

Water Soluble Vitamins:

Vitamin B1 EN14122: 2003
 Vitamin B2 Food Chem. volume 23
 Vitamin B2 JAOAC volume 62, (1979)
 Vitamin B3 J. Chrom. volume 301, (1984)
 Vitamin B6 Food Chem. volume 48, (1993)
 Vitamin B6 J. Chrom. volume 463, (1989)
 Vitamin B6 J. Food Science volume 58, (1993)
 Vitamin C JAOAC volume 75, (1992) (HPLC)

Amino Acids:

Amino acids in foods Anal Biochemistry version 178, (1989)
 Free amino acids Anal Biochemistry version 178, (1989)
 Taurine Anal Biochemistry version 178, (1989)

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 11 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

2.32 Drugs and Pharmaceuticals

(g) Vitamins and their preparations

Fat Soluble Vitamins:

Beta Carotene	EN 12812-3:1999
Beta Carotene	COST 91 (1986)
Choline	AOAC 999.14 (18 th Edition)
Vitamin A	Analytical Methods for Vitamins in Food / Pharma. Premixes (1983)
Vitamin D3	Analytical Methods for Vitamins in Food / Pharma. Premixes (1983)
Vitamin E	Analytical Methods for Vitamins in Food / Pharma. Premixes (1983)
Vitamin K	Analytical Methods for Vitamins in Food / Pharma. Premixes (1983)

Water Soluble Vitamins:

Biotin	JOAC volume 67
Folic acid	JOAC volume 67
Folic acid	Bristol Meyers Method G7270b
Vitamin B1	J Chrom. volume 301 (1984)
Vitamin B12	JAOAC volume 67 (1984)
Vitamin B2	J Chrom. volume 301 (1984)
Vitamin B3	J Chrom. volume 301 (1984)
Vitamin B5	JAOAC volume 67 (1984)
Vitamin B6	J Chrom. volume 301 (1984)
Vitamin C	AOAC 967.21 (modified)
Vitamin C	JAOAC volume 75 (1992), (HPLC)

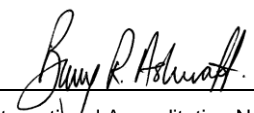
Amino Acids/Iodide:

Iodide	Ion chromatography
Nucleotides in premixes	Bristol-Meyers Squibb Method G7610b

(i) Pharmaceutical Chemicals/Food Additives

Analysis of pharmaceutical compounding chemicals and food additive chemicals in accordance with tests and methodologies defined by BP, USP and FCC.

2.36 Agricultural Products and Agricultural Materials

Authorised: General Manager		Issue 59	Date: 24/09/10	Page 12 of 17
--------------------------------	---	----------	----------------	---------------

Schedule to

CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

(c) Stockfoods

Choline	AOAC 999.14 (18 th Edition)
Vitamin A	COST 91 (1986), (modified)
Vitamin D3	COST 91 (1986)
Vitamin D3	JMA 1 (1985)
Vitamin E	COST 91 (1986)

Water Soluble Vitamins:

Vitamin B1	EN 14122 :2003
Vitamin B2	Food Chem. volume 23
Vitamin B2	JAOAC volume 62 (1979)
Vitamin B3	J. Chrom. volume 301 (1984)
Vitamin B6	J. Chrom. volume 463 (1989)
Vitamin B6	J Food Science volume 58 (1993)

Amino Acids:

Amino acids in premixes	Anal Biochemistry version 178 (1989)
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2.70 Instrumental Techniques

- (a) Gas Chromatography**
- (b) High performance liquid chromatography**

All techniques pertain to classes of test 2.31, 2.32, 2.36 as detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ logo. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

References:

AOAC	AOAC International, Official Methods of Analysis, 18 th Edition
BP	British Pharmacopoeia
COST	European Cooperation in the field of Scientific and Technical Research
FCC	Food Chemical Codex
JAOAC	Journal of the Association of Official Analytical Chemists
JDST	Journal of Dairy Science and Technology
JMA	Journal of Micronutrient Analysis
USFDA	United States Food and Drug Administration
USP	United States Pharmacopoeia

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 13 of 17

Schedule to

CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

ICP

2.05 Clays, Ceramics and Related Materials

The following metals in accordance with in-house methods using ICP-MS:

Antimony	Arsenic	Cadmium
Lead		

2.31 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and their products (including tallow)
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (e) Sugars 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
- (l) Food additives and supplements
- (m) Essential nutrients, including vitamins
- (o) Honey

The following metals in accordance with in-house methods using ICP-OES with acid digestion / wet oxidation:

Calcium	Copper	Iron	Magnesium
Manganese	Phosphorous	Potassium	Sodium
Zinc			

The following metals in accordance with in-house methods using ICP-MS with acid digestion / wet oxidation:

Antimony	Aluminium	Arsenic	Bismuth
Boron	Cadmium	Caesium	Cobalt
Copper	Chromium	Iodine	Iron
Lead	Lithium	Manganese	Mercury
Molybdenum	Nickel	Potassium	Rubidium
Selenium	Silver	Strontium	Thallium
Tin	Titanium	Tungsten	Uranium
Vanadium	Zinc		

Authorised:
 General Manager



Issue 59

Date: 24/09/10

Page 14 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

2.32 Drugs and Pharmaceuticals

(g) Vitamins and their preparations

The following in accordance with in-house methods using ICP-OES with acid digestion / wet oxidation:

Calcium	Copper	Iron	Magnesium
Manganese	Potassium	Phosphorus	Sodium
Zinc			

The following in accordance with in-house methods using ICP-MS with acid digestion / wet oxidation:

Antimony	Aluminium	Arsenic	Bismuth
Boron	Cadmium	Caesium	Cobalt
Copper	Chromium	Iodine	Lead
Lithium	Manganese	Mercury	Molybdenum
Nickel	Potassium	Rubidium	Selenium
Silver	Strontium	Thallium	Tin
Titanium	Tungsten	Uranium	Vanadium
Zinc			

2.36 Agricultural Products and Agricultural Materials

(c) Stockfoods

The following in accordance with in-house methods using ICP-OES with acid digestion / wet oxidation:

Calcium	Copper	Iron	Magnesium
Manganese	Potassium	Phosphorous	Sodium
Zinc			

The following in accordance with in-house methods using ICP-MS with acid digestion / wet oxidation:

Aluminium	Arsenic	Bismuth	Boron
Cadmium	Caesium	Calcium	Chromium
Cobalt	Copper	Iodine	Lead
Lithium	Magnesium	Manganese	Mercury
Molybdenum	Nickel	Phosphorous	Potassium
Rubidium	Selenium	Silver	Sodium
Strontium	Tin	Thallium	Titanium
Tungsten	Uranium	Vanadium	Zinc

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 15 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

2.37 Timber and Timber Treatment

(a) Timber

The following metals in accordance with AS/NZS 1605: 2000 using ICP-MS:

Arsenic	Boron	Chromium	Copper
Tin			

2.41 Waters

(a) Potable waters

(b) Non-potable waters

The following metals in accordance with in-house methods and APHA 3030 using ICP-MS and ICP-OES with acid digestion / wet oxidation (as applicable):

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Caesium	Calcium	Chromium	Cobalt
Copper	Iron	Lead	Lithium
Magnesium	Manganese	Mercury	Molybdenum
Nickel	Potassium	Selenium	Silver
Sodium	Strontium	Tin	Titanium
Thallium	Tungsten	Uranium	Vanadium
Zinc			

2.58 Environmental Monitoring

(a) Waters

(c) Soils

The following metals in accordance with in-house methods and APHA 3030 using ICP-MS and ICP-OES with acid digestion / wet oxidation (as applicable):

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Chromium	Cobalt	Copper	Iron
Lead	Mercury	Manganese	Mercury
Molybdenum	Nickel	Selenium	Silver
Strontium	Tin	Titanium	Thallium
Tungsten	Uranium	Vanadium	Zinc

(b) Air (filters and impinger solutions)

Authorised:
General Manager



Issue 59

Date: 24/09/10

Page 16 of 17

Schedule to
CERTIFICATE OF ACCREDITATION

AsureQuality Limited
 Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 175

The following metals in accordance with in-house methods using ICP-MS:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Boron	Cadmium	Caesium
Calcium	Chromium	Cobalt	Copper
Iodine	Lead	Magnesium	Manganese
Mercury	Nickel	Phosphorous	Potassium
Selenium	Silver	Sodium	Strontium
Thallium	Tin	Titanium	Tungsten
Uranium	Vanadium	Zinc	

2.70 Instrumental Techniques

- (c) Inductively Coupled Plasma-Optical Emission Spectrophotometry
- (d) Inductively Coupled Plasma-Mass Spectrophotometry

All techniques pertain to classes of test 2.31, 2.32, 2.36 as detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ logo. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

2.82 Other Specified Organic Material

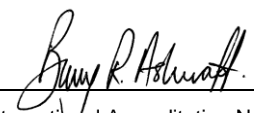
- (a) Toys and playthings (including graphic materials)

The following metals in accordance with in-house methods using ICP-MS:

Antimony	Arsenic	Barium	Cadmium
Chromium	Lead	Mercury	Selenium

References:

- AS/NZS Australia / New Zealand Standard
- APHA APHA "Standard Methods for the Examination of Water and Wastewater" 21st Edition

Authorised: General Manager		Issue 59	Date: 24/09/10	Page 17 of 17
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