# Schedule to CERTIFICATE OF ACCREDITATION



RJ Hill Labo Hamilton	ratories Ltd (Hill Labs)	Client Number 590
	05, Waikato Mail Centre, Hamilto ankton, Hamilton, 3204	on, 3240
Telephone 0	508 445-5522	www.hill-labs.co.nz
Authorised Re Ms Leisle Jacob Quality Manage	osen	
<b>Programme</b> Chemical Testir	ng Laboratory	
Accreditation I	Number 365	Initial Accreditation Date 15 April 1988
Conformance S ISO/IEC 17025	:2017	
General require	ements for the competence of tes	sting and calibration laboratories
	ements for the competence of tes	sting and calibration laboratories
Laboratory Se	rvices Summary	sting and calibration laboratories
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Laboratory Ser Plants and S	rvices Summary Soils	
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Laboratory Ser Plants and S 2.36 Inorganics 2.31 2.41 2.58 ICP 2.24 2.31 2.32 2.41 2.58 2.41 2.58 2.41 2.58 2.61	rvices Summary Soils Agricultural Products and A Foods Waters Environmental Monitoring Textiles and Textile Product Foods Drugs and Pharmaceuticals Waters Environmental Monitoring Biological Specimens	gricultural Materials
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### Food and Bioanalytical

0.00 Druge and Dhampagariticals
2.32 Drugs and Pharmaceuticals
2.36 Agricultural Products and Agricultural Materials
2.70 Instrumental Techniques

### Work Place Drug Testing

2.61 Biological Specimens

#### Air Quality

2.58 Environmental Monitoring

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AOAC 962.09 (modified)

### **Plants and Soils**

#### 2.36 Agricultural Products and Agricultural Materials

In accordance with in-house test methods except where otherwise indicated.

#### (c) Stockfoods and licks

Crude fibre

#### (g) Soils

Anion storage capacity Base saturation percent of calcium By calculation Base saturation percent of magnesium By calculation Base saturation percent of potassium By calculation Base saturation percent of sodium By calculation Cation exchange capacity By calculation Lime requirement By calculation Organic matter Dumas combustion / calculation pH of soils and soil extracts Phosphorus (Olsen extractable) Phosphorus (Resin extractable) Potentially available nitrogen (anaerobic mineralisable nitrogen) Soluble salts Sulphate-sulphur Ion chromatography Total carbon Dumas combustion Total nitrogen Dumas combustion Volume weight

The following elements in soil in accordance with ICP-OES methodology (including extraction):

Aluminium (CaCl<sub>2</sub> extractable) Boron (hot water extractable) Exchangeable Calcium (ammonium acetate extractable) Exchangeable Magnesium (ammonium acetate extractable) Exchangeable Potassium (ammonium acetate extractable) Exchangeable Sodium (ammonium acetate extractable) Exchangeable Sodium (ammonium acetate extractable) Extractable Cobalt (EDTA extractable) Extractable Copper (EDTA extractable) Extractable Iron (EDTA extractable) Extractable Iron (EDTA extractable) Extractable Manganese (EDTA extractable) Extractable Organic Sulphur Extractable Zinc (EDTA extractable)

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Reserve Potassium (TBK) Total Phosphorus (Aqua Regia digestion) Total Sulphur (Aqua Regia digestion)

The following elements in soil in accordance with ICP-MS methodology (including extraction):

Total Selenium (Aqua Regia digestion)

#### (h) Plants

Acid detergent fibre (Direct) Acid detergent fibre (Sequential) Acid detergent lignin Ash Chloride Chloride Crude fat Crude protein Crude protein Digestibility Pepsin Cellulase (DOMD) Metabolisable Energy (ME) calculated from DOMD Neutral detergent fibre Nitrate - nitrogen **Residual moisture Residual moisture** Soluble sugars Total nitrogen Total nitrogen Total starch (Megazyme)

Ankom fibre instrument AFIA method 1.9A (a) (modified) Ankom method 9 (modified) AOAC 942.05

NIR AOCS AM 5-04 Dumas combustion / calculation (NIR) By calculation AFIA7R (modified) AFIA7R (modified) / AFRC calculation AFIA Method 1.8A(a) (modified)

NFTA 2.1.4 (3hrs @ 105 °C) NIR Colorimetric method Dumas combustion NIR AOAC 996.11 (modified)

The following elements in plants in accordance with ICP-MS methodology:

Cobalt (microwave digestion) Iodine (TMAH extraction) Molybdenum (microwave digestion) Selenium (microwave digestion)

The following elements in plants in accordance with ICP-OES methodology by microwave digestion:

Aluminium	Boron	Calcium	Copper
Iron	Magnesium	Manganese	Phosphorus
Potassium	Sodium	Sulphur	Zinc

#### (i) Other agricultural products and related materials

#### Nutrient solutions:

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Ammonium - nitroger Chloride Conductivity Nitrate - nitrogen pH	n				
The following elemer	nts in accordance with ICP-MS	methodology:			
Molybdenum					
The following elemer	nts in accordance with ICP-OE	S methodology:			
Boron Magnesium Sodium	Calcium Manganese Sulphur	Copper Phosphorus Zinc	Iron Potassium		
Growing media (pot	tting mix, composts):				
Ammonium - nitroger Conductivity Nitrate - nitrogen pH	n				
Media DTPA extracti	on for the following metals by I	CP-OES:			
Boron Zinc	Copper	Iron	Manganese		
Media water extraction	on for the following metals by I	CP-OES:			
Calcium Sodium	Magnesium Sulphur	Phosphorus	Potassium		
References:					
AOAC AOAC Inte	ernational (Online)				
Inorganics					
2.31 Foods					
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#### (j) Alcoholic beverages (Wine)

Sulfate in Wine Sulfate as K<sub>2</sub>SO<sub>4</sub>

Ion Chromatography (IC) In-House By Calculation

#### 2.41 Waters

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes
- (h) Boiler waters

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

2310 B Acidity Alkalinity (as CaCO<sub>3</sub>) 2320 B (modified) Ammonium (nitrogen) 4500-NH<sub>3</sub> F (modified, discrete analyser) Ammonium (nitrogen) 4500-NH<sub>3</sub> H 4500-NH<sub>3</sub> H (modified) Ammonium (nitrogen) Ammonium (nitrogen) In-house Ash 2540 E (modified) (by calculation) In-house (by calculation) Ash from suspended solids 4500-CO2 D Bicarbonate Biochemical oxygen demand 5210 B (modified) Biochemical oxygen demand In-house **Bromate** USEPA 300.1 Part B (modified) Bromide 4110 B (modified) Bromide USEPA 300.1 (modified) USEPA 300.1 Part B (modified) Bromide Carbonate 4500-CO2 D Chemical oxygen demand 5220 D 4500-CI G Chloramines Chlorate USEPA 300.1 Part B (modified) Chloride 4110 B (modified) Chloride USEPA 300.1 (modified) Chlorine 4500-CI G Chlorite USEPA 300.1 Part B (modified) Chlorophyll A 10150 B (modified, Spectrophotometer) 10150 C (modified, Fluorometer) Chlorophyll A 3500-Cr B (modified, discrete analyser) Chromium (VI) Chromium (III) Total In-house (by calculation) 2120 C (modified) Colour (Hazen) Conductivity 2510 B Cyanide (total) 4500-CN C (modified) **Operations Manager** 1 topton Issue 177 Date:13/12/24 Page 6 of 25 Authorisation:

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Cyanide (total)		ISO 1440	3:2012 (e)		
Cyanide		4500-CN	E (modified, discrete	analyser)	
Cyanide (weak acid	dissociable)	4500-CN	I (modified)		
Cyanide (weak acid	dissociable)		4500-CN O (modified)		
Dissolved Inorganic	Nitrogen	In-house	(by calculation)		
Dissolved Organic C	arbon	5310 C (n	nodified) (by calculation	on)	
Dissolved reactive p	hosphorus	4500-P G			
Dissolved reactive p	hosphorus	4500-P G	(modified)		
Fluoride (potable wa	iter only)	4110 B (n	nodified)		
Fluoride (potable wa	ter only)	USEPA 3	00.1 (modified)		
Fluoride		4500-F C			
Free carbon dioxide		4500-CO2	2 D		
Hardness		2340 B			
Hydroxide Alkalinity	from Alkalinity	2320 B (b	y calculation)		
Hydroxide Alkalinity	•		2 D (by calculation)		
Ion Balance	- 1	1030 E	(-)		
Langelier saturation	index (LSI)	2330 B			
Mercury			45.7 (CVAF)		
Nitrate		4110 B (n	. ,		
Nitrate			00.1 (modified)		
Nitrate (nitrogen)			I (modified)		
Nitrite			00.1 (modified)		
Nitrite (nitrogen)		4110 B (n	,		
Nitrite (nitrogen)			I (modified)		
Oil and Grease			,		
pH		5520 D (modified) 4500-H B (modified)			
Phenols		5530 B (modified)			
Phenols		5530 D (Auto analyser)			
Phosphate		4110 B (n	• ,		
Phosphate			00.1 (modified)		
Phosphate from DRI			(by calculation)		
Reactive silica			$_2$ F (modified)		
Reactive silica			<sup>2</sup> F (modified, discrete	analyser)	
Ryznar index (RI)		In-house		, analyser)	
Sulphate		4110 B (n	nodified)		
Sulphate			00.1 (modified)		
Sulphide			(modified, FIA)		
Sulphide			E (modified)		
Sulphite		4500-S0 <sub>3</sub>			
Tannins and lignins		5550 B (n			
Total and nonpurgea	able organic carbon	5310 C (n			
Total dissolved nitro		· ·	(by calculation)		
Total dissolved solid	•	2540 C (n			
		· ·	,		
Total inorganic nitrog			(by calculation) D (modified, discrete	analycar)	
Total Kjeldahl nitroge		0	D (modified)	analyser	
		4500-N <sub>org</sub> 4500-N C	. ,		
Total nitrogen		4500-N C			
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Total nitrogen Total nitrogen Total organic nitrogen Total organic nitrogen (trace level) Total phosphorus Total phosphorus Total solids Total suspended solids Turbidity Turbidity Ultraviolet absorption Unionised hydrogen sulphide Urea (nitrogen) Volatile fatty acids Volatile fatty acids (total) Volatile suspended solids Volatile total solids

#### (g) Marine waters

Ammonium (nitrogen) Ash Ash from suspended solids Chlorophyll A Chlorophyll A Conductivity **Dissolved Inorganic Nitrogen** Dissolved reactive phosphorus Hydroxide Alkalinity from pH Nitrate (nitrogen) Nitrite (nitrogen) pН Phosphate from DRP Reactive silica Total inorganic nitrogen Total nitrogen Total nitrogen Total organic nitrogen (trace level) Total phosphorus Total suspended solids Turbidity Turbidity Volatile suspended solids

#### Accreditation Number 365

4500-NO<sub>3</sub> I (modified) In-house (by calculation) In-house (by calculation) In-house (by calculation) 4500-P B / E (modified, discrete analyser) 4500-P H (modified) 2540 B (modified) 2540 D (modified) 2130 B (modified) ISO 7027:2016 (modified) 5910 B 4500-S<sup>2</sup> H (modified) (by calculation) In-house In-house by IC In-house (by calculation) 2540 E (modified) 2540 E (modified)

#### 4500-NH3 H

2540 E (modified) (by calculation) In-house (by calculation) 10150 B (modified, Spectrophotometer) 10150 C (modified, Fluorometer) 2510 B In-house (by calculation) 4500-P G 4500-CO2 D (by calculation) 4500-NO3 I (modified) 4500-NO3 I (modified) 4500-H<sup>+</sup> B (modified) In-house (by calculation) 4500-SiO2 F (modified, discrete analyser) In-house (by calculation) 4500-N C 4500-NO3 I (modified) In-house (by calculation) 4500-P H (modified) 2540 D (modified) 2130 B (modified) ISO 7027: 2016 (modified) 2540 E (modified)

#### 2.58 Environmental Monitoring

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(c)	Soils and	sludges			
Oil and Grease		5520 E	(modified)		
ICP					
2.24	Textiles	and Textile Products			
(c)	Chemical	tests			
2.31	Foods				
(c) (f)	Nuts, frui Dairy pro	ts and vegetables and deriv ducts	ed products		
Microwave house pro	-	of textiles, food and biologica	I specimens for Ele	mental Analysis, in acco	rdance with in-
Aluminium Boron Cerium Dysprosi Holmium Lithium Molybden Praseody Sodium Uranium Zinc	um num	Antimony Cadmium Chromium Erbium Iron Lutetium Neodymium Rubidium Strontium Vanadium	Arsenic Caesium Cobalt Europium Lanthanum Magnesium Nickel Samarium Thulium Ytterbium	Barium Calcium Copper Gadolinium Lead Manganese Potassium Selenium Tin Yttrium	
<ul> <li>(c) Nuts, fruits and vegetables and derived products</li> <li>(f) Dairy products</li> <li>(g) Meat, poultry and derived products</li> <li>(i) Eggs and egg products</li> <li>(o) Other specified foods (honey, propolis and related products)</li> </ul>					
	ving eleme 30 and 312	nts by ICP-MS in accordance 5:	with in-house proc	edures based on alkalir	ne digestion or
Aluminiu Boron Cerium	m	Antimony Cadmium Chromium	Arsenic Caesium Cobalt	Barium Calcium Copper	
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AJ Hill Laboratories Ltd (Hill Labs)       Accreditation Number 365         Chemical Testing Laboratory       Accreditation Number 365         COPE OF ACCREDITATION       Accreditation Number 365					
Dysprosium Holmium Lithium Molybdenum Praseodymium Sodium Uranium Zinc	Erbium Iron Lutetium Neodymium Rubidium Strontium Vanadium	Europium Lanthanum Magnesium Nickel Samarium Thulium Ytterbium	Gadolinium Lead Manganese Potassium Selenium Tin Yttrium		
(c) Nuts, fruit	s and vegetables and deri	ved products			
The following elemen	ts by ICP-MS in accordance	e with in-house procedu	ires based on APHA 3	030 and 3125:	
Antimony Chromium Molybdenum	Arsenic Copper Silver	Bismuth Lead Tin	Cadmium Mercury Zinc		
(f) Dairy proc	ducts				
The following elemen	ts by ICP-OES in accordanc	e with in-house proced	ures based on APHA 3	030 and 3120:	
Calcium Potassium	lron Sodium	Magnesium Sulphur	Phosphorus Zinc		
The following elemer APHA 3030 and 312	nts by ICP-MS in accordanc 5:	e with in-house proce	dures based on alkalir	ne digestion or	
Aluminium Boron Copper Manganese Selenium	Antimony Cadmium Iodine Mercury Silver	Arsenic Chromium Lead Molybdenum Tin	Bismuth Cobalt Lithium Nickel Zinc		
(g) Meat, pou	Itry and derived products				
The following elemer APHA 3030 and 312	nts by ICP-MS in accordanc 5:	e with in-house proce	dures based on alkalir	ne digestion or	
Arsenic Selenium	Cadmium	Lead	Mercury		
(h) Fish and fish products					
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The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Caesium	Chromium	Cobalt	Copper
Lanthanum	Lead	Lithium	Manganese
Mercury	Molybdenum	Nickel	Rubidium
Selenium	Silver	Strontium	Thallium
Tin	Uranium	Vanadium	Zinc

#### (j) Alcoholic beverages (wine)

The following elements by ICP-MS in accordance with in-house procedures based on APHA 3030 and 3125:

Antimony	Arsenic	Bismuth
Cadmium	Chromium	Copper
Manganese	Mercury	Nickel
Tin	Zinc	

The following elements by ICP-OES in accordance with in-house procedures based on APHA 3030 and 3120:

Calcium

Iron

Potassium

Sodium

Mercury

Boron Lead Silver

#### (o) Other specified foods (honey, propolis and related products)

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium	Antimony	Arsenic	Cadmium
Chromium	Copper	lodine	Lead
Mercury	Selenium	Zinc	

#### 2.32 Drugs and Pharmaceuticals

#### (i) Other products – Cannabis (plant and oil)

The following elements by ICP-MS in accordance with in-house procedures based on EU Pharmacopeia 2.4.27:

Arsenic (plant only) Cadmium Lead

The following element by ICP-MS in accordance with in-house procedures based on alkaline digestion:

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Arsenic (oil only\*) \*Finished medicinal cannabis and ethanol extracts only

#### 2.41 Waters

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes
- (h) Boiler waters

The following elements by ICP-MS in accordance with APHA 3030 (modified), 3125 and USEPA 1638, 200.1:

Aluminium	Antimony	Arsenic	Barium	
Beryllium	Bismuth	Boron	Cadmium	
Caesium	Calcium	Chromium	Cobalt	
Copper	Iodine	Iron	Lanthanum	
Lead	Lithium	Magnesium	Manganese	
Mercury	Molybdenum	Nickel	Phosphorus	
Potassium	Rubidium	Selenium	Silicon	
Silver	Sodium	Strontium	Sulphur	
Thallium	Thorium	Tin	Uranium	
Vanadium	Zinc			

The following element by ICP-OES in accordance with APHA 3030 (modified) and 3120:

Sulphur

Borate (B<sub>4</sub>O<sub>7</sub>)

In-house (by calculation)

#### (g) Marine waters

The following elements by ICP-MS in accordance with APHA 3030 (modified), 3125 and USEPA 1638, 200.1:

Aluminium Beryllium Caesium Copper Lithium Molybdenum Rubidium Sodium Tin	Antimony Bismuth Calcium Iron Magnesium Nickel Selenium Strontium Uranium	Arsenic Boron Chromium Lanthanum Manganese Phosphorus Silica Sulphur Vanadium	Barium Cadmium Cobalt Lead Mercury Potassium Silver Thallium Zinc	
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Borate (B<sub>4</sub>O<sub>7</sub>)

In-house (by calculation)

### 2.58 Environmental Monitoring

(b) Air

#### (Filters and wipes)

The following element by ICP-MS in accordance with in-house procedures based on NIOSH Method 7303 Issue 1:

Lead

#### (c) Soils and sludges

Acid extractable using USEPA 200.2 digestion procedures and TCLP/SPLP USEPA 1311 and 1312 extractable metals by ICP-MS in accordance with APHA 3125:

Detection limits depend on the matrix tested e.g. soils or marine sediments and are available from the laboratory on request.

Aluminium Beryllium Caesium Copper Lithium Molybdenum Rubidium Strontium Vanadium Antimony Bismuth Calcium Iron Magnesium Nickel Selenium Thallium Zinc Arsenic Boron Chromium Lanthanum Manganese Phosphorus Silver Tin

Barium Cadmium Cobalt Lead Mercury Potassium Sodium Uranium

OLEM 9200.2-164, Standard Operating Procedure for an In Vitro Method for the determination of Arsenic and Lead Bioaccessibility (April 20, 2017) / APHA 3125.

#### (d) Other materials

#### (Fish and shellfish)

Detection limits depend on the technique used e.g. ICP-MS or ICP-OES and are available from the laboratory on request.

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium	Antimony	Arsenic	Barium	
Beryllium	Bismuth	Boron	Cadmium	
Caesium	Chromium	Cobalt	Copper	
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Lanthanum	Lead	Lithium	Manganese	
Mercury	Molybdenum	Nickel	Rubidium	
Selenium	Silver	Strontium	Thallium Zin e	
Tin	Uranium	Vanadium	Zinc	
The following element l	by ICP-OES in accordance	e with in-house proce	dures based on APHA 3	3030 and 3120:
Calcium Sodium	Iron	Magnesium	Potassium	
<b>(Paint)</b> The following element l	by ICP-MS in accordance	with in-house proced	ures:	
Lead				
2.61 Biological	Specimens			
(b) Residues in	specified veterinary spe	ecimens		
The following elements APHA 3030 and 3125:	by ICP-MS in accordance	e with in-house proc	edures based on alkali	ne digestion or
Aluminium	Antimony	Arsenic	Barium	
Boron	Cadmium	Caesium	Calcium	
Cerium	Chromium	Cobalt	Copper	
Dysprosium	Erbium	Europium	Gadolinium	
Holmium	Iron	Lanthanum	Lead	
Lithium	Lutetium	Magnesium	Manganese	
Molybdenum	Neodymium	Nickel	Potassium	
Praseodymium	Rubidium	Samarium	Selenium	
Sodium	Strontium	Thulium	Tin	
Uranium	Vanadium	Ytterbium	Yttrium	
Zinc	Vanadiani			
References:				
	dard Methods for the Exar s Environmental Protectio		l Wastewater" (Online E	Edition)
		n Agency		
2.70 Instrumen	tal Techniques			
(i) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)				
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All techniques pertain to classes of tests 2.24, 2.31, 2.32, 2.41, 2.58, 2.61 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 Accreditation symbol. 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.

# Organics

#### 2.31 Foods

#### (j) Alcoholic beverages (Wine)

The following tests in wine in accordance with the requirements of the MPI Wine Notice Requirements for Recognised Agencies and Persons (10 March 2022):

Solvents in Wine (including methanol)

GC-FID/FID In-House

#### 2.41 Waters

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes
- (h) Boiler waters

The following tests are in accordance with validated in-house methods and based upon standard methods where indicated. A full listing of compounds and detection limits are available from the laboratory upon request.

#### GC-ECD

Organochlorine pesticides (OCP) Pentachlorophenol (PCP) In-house based on USEPA 8081

GC-FID

Gases in ground water

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GC-MS					
Amine acid chelating agents (EDTA & NTA) (potable only) Halogenated acetic acids (HAA) (potable only) Halogenated volatile disinfection by-products (HVDB) (potable only)	In-house based on USEPA 552 In-house based on USEPA 551				
<ul> <li>Volatile organic compounds (VOC) incl. compound classes:</li> <li>BTEX</li> <li>Haloaromatics</li> <li>Halogenated aliphatics</li> <li>Ketones</li> <li>Monocyclic aromatic hydrocarbons</li> <li>Trihalomethanes</li> </ul>	In-house based on USEPA 8260, 5021				
<ul> <li>Semi-volatile organic compounds (SVOC) incl. compound classes:</li> <li>Acid herbicides (AHB)</li> <li>Multiresidue pesticides</li> <li>Organochlorine pesticides (OCP)</li> <li>Polychlorinated biphenyls (PCB)</li> <li>Polycyclic aromatic hydrocarbons (PAH)</li> </ul>					
GC-MS and GC-FID					
Total petroleum hydrocarbons (TPH) (covering C6 – C9)	In-house based on USEPA 5021 and 8260 (GC-MS Head Space)				
Total petroleum hydrocarbons (TPH) (covering C7 – C44)	In-house based on USEPA 8015 (GC-FID)				
GC-MS/MS					
Organochlorine Pesticides Polycyclic Aromatic Hydrocarbons (PAH)	In-house based on USEPA 8081, 8270 In-house based on USEPA 8270				
LC-MS/MS					
Acid Herbicides (including PCP) Acrylamide Formaldehyde					
(a) Potable waters					
LC-MS/MS					
Aldicarb (including Sulfoxide & Sulphone) Isoproturon Oryzalin					
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Oxamyl Primisulfu Thiabend	ıron Methyl azole					
(a) (b) (g)	(b) Non-potable waters					
LC-MS/M	S					
Tributyl T	in					
(a) (b)	Potable v Non-pota	vaters ble waters				
LC-MS/M	S					
Per- and	Polyfluoroa	lkyl Substances (PFAS)	ASTM 842	21-24 (modified)		
2.58	Environ	mental Monitoring				
(c)	Soils and	sludges				
		are in accordance with validated full listing of compounds and c				
Extraction	n and analy	sis of TCLP/SPLP extractions				
GC-ECD						
Organoch	nlorine pest	icides (OCP)	In-house	based on USEPA 808	31	
GC-FID						
Total petr	oleum hydi	rocarbons (TPH)	In-house	based on USEPA 801	5	
GC-MS						
Organoni	trogen and	Organophosphorus (ON/OP) Pe	esticides			
classes: • B <sup>·</sup> • H	rganic com TEX aloaromatic alogenated		ind In-house I	based on USEPA 826	60, 5021	
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<ul><li>Ketones</li><li>Monocyclic a</li><li>Trihalometha</li></ul>	romatic hydrocarbons anes			
compound classes: Acid herbicid Multiresidue Organochlori Polychlorinat	les (AHB)	In-house	based on USEPA 827	70
GC-MS/MS				
Organochlorine Pest Polycyclic Aromatic I			based on USEPA 808 based on USEPA 827	
LC-MS/MS				
Acid Herbicides (incl Per- and Polyfluoroa Tributyl Tin	uding PCP) Ikyl Substances (PFAS)	ASTM D7	968-23 (modified)	
(d) Other ma	terials (Environmental wipes)			
LC-MS/MS				
Methamphetamine D	Prug Suite by LC-MS/MS	NIOSH 91	11 (modified)	
2.70 Instrum	ental Techniques			
<ul> <li>(a1) Gas chromatography (2.41, 2.58)</li> <li>(a2) Gas chromatography (including Mass Selective Detection (MSD)) (2.41, 2.58)</li> <li>(b) High performance liquid chromatography (including UPLC) (2.41)</li> <li>(d2) Liquid chromatography – Tandem Mass Spectrometry (2.41, 2.58)</li> </ul>				
All techniques pertai	n to classes of test shown in par	enthesis detailed ab	oove.	
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 Accreditation symbol. 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.				
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## Food and Bioanalytical

#### 2.31 Foods

- (a) Cereals and cereal products
- (b) Edible oils, fats and their products
- (c) Nuts, fruits and vegetables and derived products
- (d) Sauces, herbs, spice and condiments
- (f) Dairy products
- (g) Meat, poultry and derived products
- (h) Fish and fish products
- (i) Eggs and egg products
- (k) Non-alcoholic beverages
- (o) Other prepared foods

The following tests in selected matrices in accordance with validated in-house methods except where otherwise indicated:

Ash Crude protein Moisture Total nitrogen In-house based on AOAC 942.05 In-house based on AOAC 992.15 In-house based on AOAC 945.15 In-house based on AOAC 992.15

#### (n) Residues in foodstuffs and crops

In accordance with validated in-house methods in selected matrices by the techniques specified.

#### GC-MS

Total dithiocarbamates as carbon disulfide p-Dichlorobenzene (pDCB) (honey, propolis, bee's wax)(SPME)

#### GC-MS/MS

Amitraz (Total) in Honey (honey and edible infused honey)

Multi-residue screening by Citrate buffered QUECHERS (fruit, vegetables, crops, wine and derived products, honey, milk)

#### LC-MS/MS

Acidic herbicides (milk, fruit, vegetables, crops and derived products)

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Glyphosate, Glufosinate and AMPA (honey, fruit, vegetables, crops and derived products) Glyphosate, Glufosinate and Metabolites (honey) Mycotoxins (grain and grain products, feed)

- Aflatoxins (plus peanuts and derived products, and spices)
- Aflatoxins M1 (milk) •
- **Fumonisins** •
- Ochratoxin A •
- Trichothecenes
- Zearalenone •

Multi-Residue Polar Compounds in Cannabis, oil and derived products

- Chlomequat
- Daminozide

Multi-residue screening by Citrate buffered QUECHERS (fruit, vegetables, wine, crops & derived products, honey, milk)

AOAC 990.35A

AOAC 2012.01

In-house (spectrophotometer) IHC Method 6.2 (modified)

DIN 10750-2 (modified)

IHC Method 2 (modified)

IHC Method 1 (modified)

Polar triazines and their precursors in milk Streptomycin, Dihydrostreptomycin and Kasugamycin (Kiwifruit) Tutin (honey: water extraction) Tutin (honey: acetonitrile extraction)

#### LC-HRAM-MS

Glucosinolates and SMCO (brassicas)

#### Other prepared foods (o)

Brix in honey Colour in honey Diastase in honey Diastase in honey Electrical Conductivity @ 20 °C in honey Gluten (ELISA) Moisture in honey

uHPLC / UV-Vis

3 in 1 Honey (DHA, HMF and MGO)

- Dihydroxyacetone (DHA) •
- 5-hydroxymethylfurfural (HMF)
- Methylglyoxal (MGO) •

Non-Peroxide Activity as % Phenol Equivalence by calculation from methylglyoxal concentration

#### Isotopic Ratio Mass Spectroscopy (IRMS)

C-4

C-4 Sugars in honey	AOAC 998.12			
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C-4 Sugars in honey – Screen

AOAC 998.12 (modified)

#### LC-MS/MS

Analysis of the following analytes in New Zealand Manuka Honey by LC-MS/MS in accordance with in-house procedures:

Four Chemical Characterisation (NZ Manuka Honey)

- 2-Methoxyacetophenone (2-MAP)
- 2-Methoxybenzoic acid (2-MBA)
- 3-Phenyllactic acid (3-PA)
- 4-Hydroxyphenyllactic acid (4-HPA)

Leptosperin (NZ Manuka Honey)

#### **References:**

AOAC AOAC International (Online)

#### 2.32 Drugs and Pharmaceuticals

#### (e) Hormones and their preparations

Progesterone in powder Progesterone in silicone implants HPLC (in-house) HPLC (in-house)

#### (i) Other products – Cannabis

Cannabinoids in cannabis

LC-MS/MS (in-house)

#### 2.36 Agricultural Products and Agricultural Materials

#### (c) Stockfoods

Ash Crude protein Moisture Total nitrogen In-house based on AOAC 942.05 In-house based on AOAC 992.15 In-house based on AOAC 945.15 In-house based on AOAC 992.15

(h) Plants

#### GC-MS/MS

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Multi-residue screening by Citrate buffered QUECHERS

#### LC-MS/MS

Multi-residue screening by Citrate buffered QUECHERS

#### (i) Other agricultural products – Agricultural chemicals

Amino alcohols

Quaternary Ammonium Compounds (QAC)

- Benzalkonium chloride
- Didecyldimethylammonium chloride

#### 2.70 Instrumental Techniques

- (a1) Gas chromatography (2.31)
- (a2) Gas chromatography (including Mass Selective Detection (MSD)) (2.31)
- (a3) Gas chromatography (including Tandem Mass Spectrometry GC-MS/MS) (2.31)
- (b) High performance liquid chromatography (including UPLC) (2.31)
- (d2) Liquid chromatography Tandem Mass Spectrometry (LC-MS/MS) (2.31)(2.32)

All techniques pertain to classes of test shown in parenthesis 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 test specified. The report over the analyst's personal signature may be endorsed with the IANZ Accreditation symbol. 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.

## Work Place Drug Testing

#### 2.61 Biological Specimens

#### (a) Residues in specified human specimens

In accordance with the general requirements of the Australian/New Zealand Standard AS/NZS 4308:2008 "Procedures for the collection, detection and quantitation of drugs of abuse in urine".

Screening and confirmation of the following drugs of abuse in urine specimens by LC-MS/MS:

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LC-MS/MS (in-house) LC-MS/MS (in-house)

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Amphetamine Type Substances (ATS)					
Amphetamine Methamphetamine	Ephedrine Phentermine	MDA Pseudoephedrine	MDMA		
Opiates and Opioids					
6-Monoacetylmorphine (MAM)	Codeine	Fentanyl	Hydrocodone		
Hydromorphone Tramadol	Morphine	Oxycodone	Oxymorphone		
Cocaine metabolites					
Benzoylecgonine	Ecgonine Methyl Ester (E	ME)			
Benzodiazepines					
Alprazolam* Lorazepam Oxazepam	Clonazepam* Midazolam* Temazepam	Diazepam Nitrazepam* Triazolam*	Flunitrazepam* Nordiazepam		
*The following Benzodiaz	zepine metabolites are anal	ysed and reported:			
		7-amino-nitrazepam alpha-hydroxy-triazo	lam		
Cannabis					
ТНС-СООН					
Air Quality					
2.58 Environmental Monitoring					
(b) Air					
A full listing of the compounds and their detection limits are available from the laboratory on request. The laboratory is accredited for analysis only for the methods below.					
GC-FID/FID					
NIOSH 1403 (charcoal tubes only) (modified)					
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Alcohols IV

NIOSH 1501 (charcoal tubes and badges) (modified) Monocyclic Aromatic Hydrocarbons

#### HPLC

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges) Determination of Formaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology]

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges) Determination of Acetaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology]

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges) Determination of Carbonyl compounds in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology]

NIOSH 2016 (modified) (DNPH impregnated silica tubes and badges) Formaldehyde

NIOSH 2532 (modified) (DNPH impregnated silica tubes and badges) Glutaraldehyde

#### Gravimetric

AS 3640:2009 Gravimetric determination of inhalable dust in workplace atmospheres

AS 2985:2009 Gravimetric determination of respirable dust in workplace atmospheres

AS/NZS 3580.9.3:2015

Determination of suspended particulate matter – Total suspended particulate matter (TSP) – High volume sampler Gravimetric method

AS/NZS 3580.9.6:2015 Determination of suspended particulate matter – PM<sub>10</sub> high volume sampler with size selective inlet – Gravimetric method

AS 3580.9.9:2017 (modified) Determination of suspended particulate PM<sub>10</sub> low volume sampler – gravimetric method

AS 3580.9.10:2017 (modified) Determination of suspended particulate PM<sub>2.5</sub> low volume sampler – gravimetric method

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#### **References:**

AS Australian Standard AS/NZS Australian and New Zealand Standard NIOSH National Institute for Occupational Safety and Health USEPA United States Environmental Protection Agency

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