Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Thermo Fisher Scientific New Zealand Ltd **Client Number 136**

Private Bag 102922, North Shore, Auckland, 0745
244 Bush Road, Albany, Auckland, 0632

Telephone 09 980-6770 **www.thermofisher.co.nz**

Authorised Representative
Mr Grant Stronach
Technical Manager Spectrophotometers

Programme
Metrology & Calibration Laboratory

Accreditation Number 176 **Initial Accreditation Date** 15 July 1982

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

5.22	Precision Laboratory Balances
5.23	Industrial Balances
5.68	Optical Properties of Materials: Spectral

Key Technical Personnel

Mr Joselito Macaranas	5.22, 5.23, 5.68
Mr Roneel Sharma	5.22, 5.23, 5.68
Mr Grant Stronach	5.22, 5.23, 5.68
Mr Andrew Winther	5.22, 5.23

IANZ; Building 7, Central Park, 660-670 Great South Road, Ellerslie, Auckland 1051
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Calibration and Measurement Capability (CMC) Uncertainties are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % Note1.

Measurement results are traceable to the International System of Units (SI) via an unbroken chain of comparisons to the New Zealand National Standards or to the National Standards of other Signatories to the CIPM MRA.

Calibrations can be carried out at the premises of the accredited laboratory or in the field at the customers premises.

Measurand/Range	Parameter	CMC Uncertainty

5.22 Precision Laboratory Balances

Examination of the performance of precision laboratory balances having a nominal measurement uncertainty not exceeding 1 part in 100,000 of maximum capacity.

Up to 10 kg		2 in 10^6 or 10 µg, whichever is greater

5.23 Industrial Balances

Examination of the performance of industrial balances having a nominal measurement uncertainty exceeding 1 part in 100,000 of maximum capacity.

Up to 10 kg		2 in 10^6 or 10 µg, whichever is greater
10 kg to 110 kg		2 parts in 100,000

5.68 Optical Properties of Materials: Spectral

(a) Regular transmittance and absorbance – UV and visible spectrophotometers

Wavelength calibration

241.5 nm to 879.3 nm		0.14 nm

Photometric calibration

Measured at 546 nm	0 Abs to 2.0 Abs	0.0019 Abs
Measured at 546 nm	2.0 Abs to 3.0 Abs	0.0039 Abs
Measured at 350 nm	0 Abs to 1.0 Abs	0.0037 Abs
Measured at 350 nm	1.0 Abs to 2.0 Abs	0.0052 Abs
Measured at 240 nm	0 Abs to 1.0 Abs	0.0037 Abs
Measured at 240 nm	1.0 Abs to 2.0 Abs	0.0052 Abs

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Hetero-chromatic stray light

Measured at 220 nm (UV source) NaI
Measured at 340 nm (Vis source) $NaNO_2$

Iso-chromatic stray light

Measured at 340 nm
Measured at 400 nm by filter

Note 1:
Unless stated otherwise the CMC is based on the performance of the best available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC Uncertainty. A laboratory may not report measurement uncertainties lower than its CMC. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC the laboratory may be able to use the calibration data to lower its CMC Uncertainty. Please contact the laboratory to discuss your specific requirements.

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