

Accreditation Certificate

Laboratory Supplies Ltd.

trading as

Lennox Laboratory Supplies

John F. Kennedy Drive, Naas Road, Dublin 12

Calibration Laboratory

Registration number: 288C

is accredited by the Irish National Accreditation Board (INAB) to undertake calibration as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition

“General Requirements for the Competence of Testing and Calibration Laboratories”

*(This Certificate must be read in conjunction with the annexed
Schedule of Accreditation)*


Date of award of accreditation: 31:05:2011

Date of last renewal of accreditation: 31:05:2011

Expiry date of this certificate of accreditation: 31:05:2016

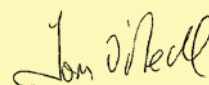
This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: _____



Dr Adrienne Duff

Chairperson: _____



Mr Tom O'Neill

Issued on 31 May 2011

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:
Category A, B, D

LABORATORY SUPPLIES LTD.
trading as **Lennox Laboratory Supplies**

Balance and Temperature Calibration Laboratory

Initial Accreditation Date : 31-May-2011
Postal Address: Laboratories Supplies Ltd.
John F. Kennedy Drive
Naas Road
Dublin 12
Telephone: +353 (1) 4552201
Fax: +353 (1) 4507906
E-mail: calibration@lennox.ie
Contact Name: Joseph Moran
Facilities: Public calibration service

Schedule of Accreditation



Permanent Laboratory:
 Category A, B, D

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

Calibration Categories:

- Category A:** Permanent calibration laboratory where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration that is performed on site by individuals and organisations that do not have a permanent calibration laboratory. Calibration may be performed using
- (a) portable test equipment
 - (b) a site laboratory
 - (c) a mobile laboratory or
 - (d) equipment from a mobile or site laboratory

Standard Specification or Calibration Procedure Used:

The standard specification or calibration procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

Glossary of Terms

Facilities:

- Public calibration service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration:** Unavailable for public calibration more often than not.

Laboratory users wishing to obtain assurance that calibration results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate.

Users should contact the laboratory directly to ensure that this schedule of accreditation is current. INAB will on request verify the status and scope.

Scope of Accreditation



LABORATORY SUPPLIES LTD.

trading as **Lennox Laboratory Supplies**

Temperature Calibration Laboratory

(Nominal ambient conditions for calibration work: 20±4°C and 50±25%RH)

Permanent Laboratory:

Category A

INAB Classification number (P9) Instrument	Range of measurement	Calibration and measurement capability expressed as an uncertainty *	Method and remarks
501 Temperature measuring equipment	Calibration of thermometers		Documented in-house procedure CPM-003
.41 Digital temperature indicator system	-40°C to +180°C and +180°C to +400°C	±0.029°C ±0.120°C	

*** Notes:**

1. In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.
2. Calibration and measurement capability expressed as an uncertainty (±) to be reported in compliance with EA-4/02, "Expression of the Uncertainty of Measurement".

Scope of Accreditation



LABORATORY SUPPLIES LTD.

trading as **Lennox Laboratory Supplies**

Temperature Calibration Laboratory

(Nominal temperature for calibration work: 0-40°C)

Permanent Laboratory:
Category B

INAB Classification number (P9) Instrument	Range of measurement	Calibration and measurement capability expressed as an uncertainty *	Method and remarks
510 Temperature Controlled Enclosures	Calibration of temperature controlled enclosures including temperature mapping:		Single and multi-point calibration using documented in-house procedure CPM-002
.01 Ovens and baths	Using PT100s -40°C to +200°C	± 0.16°C	
.02 Incubators	and		
.03 Autoclaves and sterilising ovens	Using Thermocouples		
.04 Industrial freezers	-40°C to +200°	±0.27°C	
Time Interval	0 up to 30mins 30 to 120mins 120 mins to 24 hours	±0.17sec ±0.60sec ±0.61sec	
.99 Climatic Chambers	Using Thermocouples 0°C to +100°C	±0.27°C	

*** Notes:**

1. In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.
2. Calibration and measurement capability expressed as an uncertainty (±) to be reported in compliance with EA-4/02, "Expression of the Uncertainty of Measurement in Calibration".

Scope of Accreditation



LABORATORY SUPPLIES LTD.

trading as **Lennox Laboratory Supplies**

Balance Calibration Laboratory

Site calibration using portable test equipment :
Category D

INAB Classification number (P9) Instrument	Range of measurement	Calibration and measurement capability expressed as an uncertainty *	Method and remarks
121 Weighing Devices (Electronic)	Calibration of balances		Documented in-house procedure CPM-001 using OIML weights of
.01 Precision Laboratory balances	1mg - 5g 5g - 260g 260g - 1,000g 1,000g - 6,000g	±0.025mg ±0.34mg ±2.20mg ±0.020g	Class E2
.02 Industrial balances	6,000g - 11,000g	±0.19g	Class F1/E2 combined
.03 Industrial Weighing appliances	11,000 g - 70,000g	±1.4g	Class M1

*** Notes:**

1. In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.
2. Calibration measurement capability expressed as an uncertainty (±) to be reported in compliance with EA-4/02, "Expression of the Uncertainty of Measurement in Calibration".