Accreditation Certificate

Accu-Science (Ireland) Ltd

Unit C3, M7 Business Park, Newhall, Naas, Co Kildare

Registration number: 309C

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: 19:02:2013

Date of last renewal of accreditation: 19:02:2013

Expiry date of this certificate of accreditation: 19:02:2018

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:	All susuelle	Chairperson:	Ion offeel	

Issued on 19 February 2013

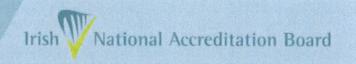
Dr Adrienne Duff

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.

Mr Tom O' Neill

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.

Wilton Park House, Wilton Place, Dublin 2, Ireland. Tel +353 1 607 3003 Fax +353 1 607 3109 E-mail inab@inab.ie Web www.inab.ie



Wilton Park House, Wilton Place, Dublin 2, Ireland Tel +353 1 607 3003 Fax +353 1 607 3109 Email inab@nab.le Web www.inab.le

Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:

Category D

Accu-Science(Ireland) LTD

Temperature Calibration Laboratory

Initial Accreditation Date:

Post al Address:

Telephone:

+353 (45) 882600

Fax:

+353 (45) 873799

E-mail:

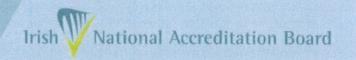
info@accuscience.ie

Contact Name:

Caroline Daly

Facilities:

Public calibration service



Wilton Park House, Wilton Place, Dublin 2, Ireland Tell +353 1 607 3003 Fax +353 1 607 3109

E-mail inab@nab.ie Web www.inab.ie

Schedule of Accreditation



Permanent Laboratory: Category 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:

Ste 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:

Ste 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:

Ste 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

Established for another primary purpose but, more commonly than not,

calibration: is available for outside work

Normally not available for public

Unavailable for public calibration more often than not

calibration:

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



Accu-Science (Ireland) Ltd

Permanent Laboratory:

Category D

Temperature Calibration Laboratory

(Nominal temperature for calibration work: 20±5° C)

INAB Classification number (P9) Instrument		Range of measurement	Calibration and measurement capability expressed as an uncertainty	Method and remarks
501	Temperature measuring	Calibration of digital		Documented in-house
	equipment	thermometers		procedure ACCU168
.41	Digital temperature			for the calibration of
	indicator system with			digital temperature
	resistive type sensors:-			systems with resistive type
	- PT100's	-80 to -40°C	±0.27° C	sensors.
		-40 to 0° C	±0.15°C	
		0 to +5°C	±0.12° C	
		+5 to +42° C	±0.14° C	
		+42 to +125° C	±0.17° C	
			200,000,000	
-	- Thermistors	-80 to -40° C	±0.26° C	
		-40 to 0°C	±0.14°C	
		0 to +5° C	±0.12° C	
		+5 to +42° C	±0.15° C	
		+42 to +125° C	±0.17° C	
	- Thermocouples	-80 to -40° C	±0.31°C	
	mormoodapico	-40 to 0° C	±0.17° C	
		0 to +5° C	±0.17°C	
		+5 to +42° C	±0.13 C ±0.24° C	
		+42 to +125° C	±0.24°C	
		142 10 1120 0	10.24	

* 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



Accu-Science (Ireland) Ltd

Permanent Laboratory:

Category D

Temperature Calibration Laboratory

(Nominal temperature for calibration work: 20±10°C)

INAB Classification number (P9) Instrument		Range of measurement	Calibration and measurement capability expressed as an uncertainty	Method and remarks
510	Temperature			Single and multi-poin
	Controlled Enclosures			calibration using
.01	Ovens, furances and			documented in-house
	baths	Calibration of temperature		procedure ACCU 167
.02	Incubators	controlled enclosures		
.03	Autoclaves and	including temperature		
	sterilising ovens	mapping:		
.04	Industrial freezers	Using PT100s:-		
	K-	-50 to 0°C	±0.27°C	
		0 to +30°C	±0.15°C	
		+30 to +50°C	±0.19°C	
		+50 to +90°C	±0.35°C	
		+90 to +130°C	±0.33°C	
.99	Time Interval Climatic Chambers	0 to 24 hours	±1.50 Seconds	Accu 169 documented inhouse method for calibration of ValProbe Logger
				Internal Clock

* 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".
- 3 The radiation effect contribution is included in CMC's for temperature controlled enclosures.