

Accreditation Certificate

Teagasc - The Agriculture and Food Development Authority,

Technical Services Laboratory, Teagasc Food Research Centre, Moorepark,
Fermoy, Co Cork.

Testing Laboratory
Registration number: 323T

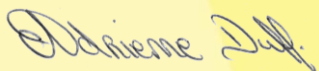
is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition “General Requirements for the Competence of Testing and Calibration Laboratories”
(This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)

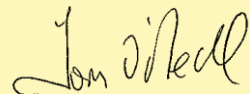
Date of award of accreditation: **10:06:2014**

Date of last renewal of accreditation: **10:06:2014**

Expiry date of this certificate of accreditation: **10:06:2019**

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 09 February 2015

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) Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement, for Testing.

Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:
Category A and B

TEAGASC,
Technical Services Laboratory, Teagasc Food Research
Centre, Moorepark, Fermoy, Co Cork.

Stack Emission Testing Laboratory

Initial Registration Date : 10-June-2014

Postal Address:

*(Address of other locations
as they apply)*

Telephone: +353 (25) 42423

Fax: +353 (25) 42340

E-mail: annemarie.mcauliffe@teagasc.ie

Contact Name: Anne Marie Mc Auliffe

Facilities: Public testing service available for Public testing

Schedule of Accreditation



Permanent Laboratory:
Category A and B

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.

Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing 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 and testing 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 and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing 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 Test Procedure Used:

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

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

Scope of Accreditation



Technical Services Laboratory, Teagasc
Food Research Centre, Moorepark,
Fermoy, Co Cork.
Stack Emission Testing Laboratory

Permanent Laboratory:
Category A

| INAB Classification number (P9) Materials/products tested | Type of test/properties measured Range of measurement | Standard specifications Equipment/techniques used |
|--|---|--|
| 770 Gases and Aerosols .71 Analysis | Total Particulate Matter 0.8 to 50mg/m ³ | EN 13284-1:2002 SOP:- MPQM 6.7 and 6.16 |

Scope of Accreditation



**Technical Services Laboratory, Teagasc
Food Research Centre, Moorepark,
Fermoy, Co Cork.
Stack Emission Testing Laboratory**

Permanent Laboratory:
Category B

| INAB Classification number (P9) Materials/products tested | Type of test/properties measured Range of measurement | Standard specifications Equipment/techniques used |
|--|---|---|
| 770 Gases and Aerosols .71 Sampling | Total Particulate Matter 0.8 to 50mg/m ³ | EN 13284-1:2002 Isokinetic sampling using quartz filter. SOP:- MPQM 6.7 and 6.16 |
| 770 Gases and Aerosols .04 Industrial fumes and mixtures | Pressure: Range 0 to 2500Pa Temperature: Range 0 to 200°C Velocity: Range 3 to 50 m.s ⁻¹ | EN 16911-1:2013 L Type and S Type Pitot tube SOP:- MPQM 6.7 |
| 770 Gases and Aerosols .04 Industrial fumes and mixtures | Water Vapour in stacks Humidity ratio: Range: 4 to 50g/kg dry air | EN 14790:2005 Adsorption method SOP:- MPQM 6.7 and 6.16 |

Scope of Accreditation



Technical Services Laboratory, Teagasc
 Food Research Centre, Moorepark,
 Fermoy, Co Cork.
 Dairy Testing Laboratory

Permanent Laboratory:
 Category A

| INAB Classification number (P9) Materials/products tested | Type of test/properties measured Range of measurement | Standard specifications Equipment/techniques used |
|--|---|--|
| 751 Food Chemistry | | |
| .01 Dairy Products (Liquid milk/milk powder) | Fat Content Liquid milk: 0.5 - 8.0g/100g Milk Powder: 0.1 - 60g/100g Protein content - Kjeldahl (N*6.38) 0.3 - 95.7g/100g Total solids Liquid milk: 0.5 - 15g/100g Moisture content Milk powder: 0.1 - 5.0g/100g | MPQM 6.1 based on ISO 1211:2010/IDF 1:2010 and ISO 1736:2008/IDF9:2008 MPQM 6.4 based on ISO 8968-3:2004/ IDF 20-3:2004 MPQM 6.2 based on ISO 6731:2010/IDF 21:2010 MPQM 6.33 based on ISO 5537:2004/IDF 26:2004 |