

Accreditation Certificate

FBA Laboratories Ltd

Carrigeen Industrial Estate, Cappoquin, Co. Waterford

Testing Laboratory

Registration number: 257T

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)

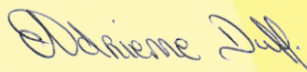
Date of award of accreditation: 13:04:2010

Date of last renewal of accreditation: 15:12:14

Expiry date of this certificate of accreditation: 15:12:19

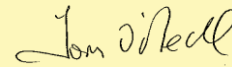
This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager:



Dr Adrienne Duff

Chairperson:



Mr Tom O'Neill

Issued on 15 December 2014

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.

The 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

FBA LABORATORIES LTD

Chemical & Biological Testing Laboratory

<i>Initial Registration Date :</i>	13-April-2010	Chemistry Testing
	06-December-2011	Veterinary Testing
<i>Postal Address:</i>	Carrigeen Industrial Estate,	
<i>(Address of other locations as they apply)</i>	Cappoquin,	
	Co. Waterford	
<i>Telephone:</i>	+353 (58) 52861	
<i>Fax:</i>	+353 (58) 52865	
<i>E-mail:</i>	admin@fba-labs.com	
<i>Contact Name:</i>	Conor Butler	
<i>Facilities:</i>	Public testing service	

Schedule of Accreditation



Permanent Laboratory:
Category A

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
- portable test equipment
 - a site laboratory
 - a mobile laboratory or
 - 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



FBA Laboratories Ltd

Permanent Laboratory:
Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
761 Agricultural products and materials .22 Soils	pH 4-7 in aqueous suspension pH 4-7 in acetate buffer (SMP) suspension	CM01 and CM02 In-house method based on Soil Scientific Society of America: procedure 25, 1961 and Department of Agriculture and Food, October 2004
761 Agricultural products and materials .22 Soils	Extractable Phosphorous (Morgan's extract) 1-30 mg/L as P	CM03 In-house method based on S.I. No. 610 of 2010 Extraction procedure, followed by flow injection analysis
761 Agricultural products and materials .22 Soils	Extractable Potassium (Morgan's extract) 17-500mg/L as K	CM03 In-house method based on S.I. No. 610 of 2010 Extraction procedure, followed by flame photometric analysis
761 Agricultural products and materials .22 Soils	Organic matter in soil (0.7 to 100%)	CM05 In-house method based on S.I. No. 610 of 2010
766 Waters .01 Waters for portable and domestic purpose Other waters Ground Waters .99 Surface Waters Wastewater	Determination of pH (pH units) 4-10	In House method based on APHA 2012:4500H: B meter method

Scope of Accreditation



FBA Laboratories Ltd

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters .04 Sewage .05 Trade Wastes .99 Other waters Rivers Surface Waters Leachates	Determination of Chemical Oxygen Demand 3-1500 mg/l O ₂	In House method based on APHA 5220 and Hach Company Standard Method 8000.
766 Waters .01 Waters for portable and domestic purpose .99 Other waters Ground Waters Surface Waters Wastewater	Determination of Total Phosphorus 0.02-5.5 mg/LP	In House method based on "Standard Methods for the Examination of water and wastewater" Method 4500-E, 22 nd Edition, APHA, 2012 and Hach method 81910 Edition 9.
766 Waters .01 Waters for portable and domestic purpose .99 Other waters Ground Waters Surface Waters Wastewater	Determination of Total Nitrogen 0.5-25.0 mg/LN	In House method based on Hach Company Standard method 10071, 10 th Edition

Scope of Accreditation



FBA Laboratories Ltd

Veterinary 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
1314 Virology .05 Identification by molecular techniques	Determination of BVDV antigen in individual and pooled ear notch by RT-PCR	In-house documented procedure CM 13 by Qiagen kit.
1325 Serology of Infection .03 Enzyme linked immunosorbent assays	Determination of BVDV antigen in individual serum by ELISA Determination of BVDV antigen in individual ear notch samples by ELISA	In-house documented procedure CM09 by IDEXX kit In-house documented procedure CM08 by IDEXX kit
1325 Serology of Infection .03 Enzyme linked immunosorbent assays	Determination of BVDV antibody in individual and pooled milk by ELISA Determination of BVDV antibody in individual and pooled serum by ELISA Determination of BVDV antigen in individual ear notch samples by ELISA using DSX automated system	In-house documented procedure CM06 by IDEXX kit In-house documented procedure CM07 by IDEXX kit In-house documented procedure CM15 by IDEXX kit

Scope of Accreditation



FBA Laboratories Ltd

Veterinary 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
1371 Johne's Disease .13 Enzyme linked immunosorbent assays <i>Bovine species</i>	Determination of MAP antibody in individual serum samples by ELISA Determination of MAP antibody in individual milk samples by ELISA Determination of MAP antibody in individual serum samples by ELISA using DSX automated system	In-house documented procedure CM16 by ID VET kit In-house documented procedure CM17 by ID VET kit In-house documented procedure CM18 by ID VET kit
1371 Johne's Disease .13 Enzyme linked immunosorbent assays <i>Bovine species</i>	Determination of MAP antibody in individual milk samples by ELISA using DSX automated system	In-house documented procedure CM19 by ID VET kit