

Accreditation Certificate

Central Veterinary Research Laboratory Department of Agriculture, Fisheries and Food Virology Division

Young's Cross, Backweston Campus, Celbridge, Co. Kildare

Testing Laboratory

Registration number: 273T


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: 19:10:2010

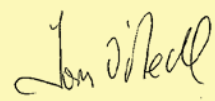
Date of last renewal of accreditation: 19:10:2010

Expiry date of this certificate of accreditation: 19:10:2015

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 19 October 2010

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

CVRL, VIROLOGY DIVISION

Veterinary Laboratory

Initial Registration Date : 19-October-2010
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Facilities: 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
- (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



CVRL, Virology Division 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	<p>Detection of African Horse Sickness Virus by real time Taqman® RT-PCR in blood and tissue samples</p> <p>Detection of African Swine Fever Virus by real time Taqman® RT-PCR in blood and tissue samples</p>	<p>Documented in-house methods:</p> <p>SOP_VIR_01_01 based on Aguero, M., Gomez-Tejedor, C., Angeles Cubillo, M., Rubio, C., Romero, E. and Jimenez-Clavero, M.A. (2008). Real-time fluorogenic reverse transcription polymerase chain reaction assay for detection of African horse sickness virus. J Vet Diagn Invest. 20 (3): 325-8</p> <p>SOP_VIR_03_01 based on King, D., Reid, S., Hutchings, G., Grierson, S., Wilkinson, P., Dixon, L., Bastos, A. and Drew, T. (2003). Development of a TaqMan PCR assay with internal amplification control for the detection of African swine fever virus. Journal of Virological Methods 107, 53-61.</p>

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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	<p>Detection of Classical Swine Fever Virus by real time Taqman® RT-PCR in blood samples</p> <p>Detection of Bluetongue Virus by real time Taqman® RT-PCR in blood samples</p>	<p>Documented in-house methods:</p> <p>SOP_VIR_10_01 based on McGoldrick, A., Bensaude, E., Ibata, G., Sharp, G. and Paton, D.J. (1999). Closed one-tube reverse transcription nested polymerase chain reaction for the detection of pestiviral RNA with fluorescent probes. Journal of Virological Methods 79, 85-95.</p> <p>SOP_VIR_08_01 based on Shaw, A.E., Monaghan, P., Alpar, H.O., Anthony, S. Darpel, K.E., Batten, C.A., Guercio, A., Alimena, G., Vitale, M., Bankowska, K., Carpenter, S., Jones, H., Oura, C.A.L., King, D.P., Elliot, H., Mellor, P.S. and Mertens, PPC. (2007). Development and initial evaluation of a real-time PCR assay to detect bluetongue virus genome segment 1. Journal of Virological Methods 145, 115-126.</p>

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Permanent Laboratory:
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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	Detection of Avian Influenza Virus matrix gene by RT-qPCR in tissues and swabs	Documented in-house methods: SOP_VIR_02_03 based on Spackman, E., Senne, D.A., Myers, T.J., Bulaga, L.L., Garber, L.P., Perdue, M.L., Lohman, K., Daum, L.T., Suarez, D.L., 2002. Development of a real time reverse transcriptase PCR assay for type A influenza virus and the avian H5 and H7 haemagglutination subtypes. J. Clin. Microbiol. 40, 3256-3260.
	Detection of Avian Influenza Virus H5 gene by RT-qPCR in tissues and swabs	SOP_VIR_02_04 based on Spackman, E., Senne, D.A. Myers, T.J., Bulaga, L.L. Garber, L.P., Perdue, M.L., Lohman, K., Daum, L.T., Suarez, D.L. 2002. Development of a real time reverse transcriptase PCR for type A influenzavirus and the avian H5 and H7 haemagglutination subtypes. J. Clin. Microbiol. 40:3256-3260.

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1314 Virology .05 Identification by molecular techniques	<p>Detection of Avian Influenza Virus H7 gene by RT-qPCR in tissues and swabs</p> <p>Real-time RT-PCR to detect FMDV in water, blood and epithelial tissue</p>	<p>Documented in-house methods:</p> <p>SOP_VIR_02_05 based on Spackman, E., Senne, D.A., Myers, T.J., Bulaga, L.L., Garber, L.P., Perdue, M.L., Lohman, K., Daum, L.T., Suarez, D.L., 2002.</p> <p>Development of a real time reverse transcriptase PCR for type A influenza virus and the avian H5 and H7 haemagglutination subtypes. J. Clin. Microbiol. 40:3256-3260.</p> <p>SOP_VIR_16_02 based on Reid, S., Ferris, N., Hutchings, G., Zhang, Z., Belsham, J. and Alexandersen, S. (2002).</p> <p>Detection of all seven serotypes of foot-and-mouth disease by real-time fluorogenic reverse transcription polymerase chain reaction. Journal of Virological Methods 105, 67-80.</p>

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<p>1314 Virology</p> <p>.05 Identification by molecular techniques</p>	<p>Real-time RT-PCR to detect SVDV in serum and epithelial tissue</p> <p>Real-time RT-PCR to detect BVDV in water, blood and epithelial tissue</p>	<p>Documented in-house methods:</p> <p>SOP_VIR_26_01 based on Reid, S., Ferris, N., Hutchings, G., Kind, D., and Alexandersen, A. (2004). Evaluation of real-time reverse transcription polymerase chain reaction assays for the detection of swine vesicular disease virus. <i>Journal of Virological Methods</i> 116, 169-176.</p> <p>SOP_VIR_09_13 based on McGoldrick, A., Bensaqude, G., Ibata, G., Sharp, G. and Paton, D.J. (1999). Closed one-tube reverse transcription nested polymerase chain reaction for the detection of pestiviral RNA with fluorescent probes. <i>Journal of Virological Methods</i> 79, 85-95</p>

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
1314 Virology		Documented in-house methods:
.01 Diagnostic virology - non-cultural (immunological) methods of detection	Detection of antibodies to Avian Influenza Virus H5 and H7 subtypes by haemagglutination Inhibition test in serum	SOP_VIR_02_06 based on Anon (2009) Avian influenza: Manual of diagnostic tests and vaccines for terrestrial animals. Chapter 2.3.4., PP 465-472, (2008) [Internet] OIE. Available from: http://www.oie.int/Eng/Normes/Mmanual/2008/pdf/2.03.04_AI.pdf
	Detection of antibodies to Avian Influenza Virus Matrix gene by Agar Gel Immunodiffusion in serum	SOP_VIR_02_07 based on Anon (2009) Avian influenza; Manual of diagnostic tests and vaccines for terrestrial animals. CHAPTER 2.3.4., PP 465-472, (2008) [Internet] OIE. Available from: http://www.oie.int/Eng/Normes/Mmanual/2008/pdf/2.03.04_AI.pdf

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1314 Virology		Documented in-house methods:
.01 Diagnostic virology - non-cultural (immunological) methods of detection	Haemagglutination inhibition (HAI) to detect antibodies to avian paramyxovirus-1 in avian sera	SOP_VIR_13_01 based on Anon (2008) Newcastle Disease: Manual of diagnostic tests and vaccines for terrestrial animals. CHAPTER 2.3.14, PP 576-589, (2008) [Internet] OIE.
	Enzyme linked immunosorbent assay (ELISA) for detection of antibodies to Bovine Leukaemia Virus (BLV) in bovine serum	SOP_VIR_11_02
	Enzyme linked immunosorbent assay (ELISA) for detection of antibodies to Bovine Herpesvirus 1 (BHV1) in bovine serum	SOP_VIR_06_02
	Enzyme linked immunosorbent assay (ELISA) for detection of antibodies to Bovine Viral Diarrhoea Virus in bovine serum	SOP_VIR_09_12

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
1314 Virology .01 Diagnostic virology - non-cultural (immunological) methods of detection	Enzyme linked immunosorbent assay (ELISA) for detection of Bovine Viral Diarrhoea Virus (types I & II) in bovine serum	Documented in-house methods: SOP_VIR_09_09
.02 Diagnostic virology - cultural methods of detection and identification of organisms	Virus Isolation and Identification (Egg Inoculation Technique) for Avian Influenza and Avian Paramyxovirus	SOP_VIR_02_10 based on Anon (2008) Avian influenza: Manual of diagnostic tests and vaccines for terrestrial animals. CHAPTER 2.3.14, PP 586-589, (2008) [Internet] OIE., 12.1. Anon (1992). Council Directive 92/66/EEC of 14th July 1992 introducing community measures for the control of Newcastle Disease. Official Journal of the European Communities L260, pp 1-20 Annex III.