Irish National Accreditation Board

Accreditation Certificate

Complete Laboratory Solutions

Ros Muc, Connemara, Co.Galway

Testing Laboratory

Registration number: **108T**

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: **17:12:2001**

Date of last renewal of accreditation: **09:08:2011**

Expiry date of this certificate of accreditation: **09:08:2016**

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: Adrienne Duff

Dr Adrienne Duff

Chairperson: Tom O'Neill

Mr Tom O'Neill

Issued on 09 August 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.

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.

Irish National Accreditation Board

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Schedule of Accreditation

(Annex to Accreditation Certificate)

Permanent Laboratory:

Category A

COMPLETE LABORATORY SOLUTIONS

Chemical and Biological Testing Laboratory

Initial Registration Date :	**17-December-2001**	
Postal Address:	Ros Muc	Unit 3
(Address of other locations	Connemara	IDA Enterprise Park
as they apply)	Co Galway	Tuam Road, Galway
Telephone:	+353 (0)91 574355	+353 (0) 91 781690
Fax:	+353 (0)91 574356	
E-mail:	info@cls.ie	
Contact Name:	Mr. Darren McGrath	
Facilities:	Public testing service	

Irish National Accreditation Board

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Schedule of Accreditation

ISO 17025 INAB ACCREDITED TESTING DETAILED IN SCOPE REG NO. 108T

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

Complete Laboratory Solutions,Rosmuc

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**		Documented in-house method based on Standard methods for the examination of water and waste water 21st edition 2005 (unless otherwise stated)
.01	Waters for potable and domestic purposes	Biochemical oxygen demand Surface water: 1-7,000 mg/L Effluent: 2-7,000 mg/L	CLS 12
.04	Sewage	pH (4 – 10)	CLS 26
.05	Trade wastes	Suspended solids (2 to 15,000 mg/L)	CLS 13
.07	Bore Waters	Fats, Oils and greases (5 to 10,000 mg/L)	CLS 25
.99	Other Waters Surface waters	Phosphorous (0.01 to 2,000 mg/L $P0_4$-P) Orthophosphate (0.03 to 6,140 mg/L PO_4)	Konelab CLS 35
		Chloride (2.0 to 30,000 mg/L Cl)	Konelab CLS 36
		Nitrite (0.005-10 mg/L NO_2-N)	Konelab CLS 37
		TON (0.1– 500 mg/L NO_3-N)	Konelab CLS 38
		Nitrate (0.1- 500 mg/L NO_3-N)	Konelab CLS 39 (TON-NO_2-N)

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**	Ammonia (0.005 to 600 mg/L NH_3-N)	Konelab CLS 40 Salicylate method based on Methods for the examination of water and associated Materials, Ammonia in waters, 1981.
.01	Waters for potable and domestic purposes		
.04	Sewage	COD	CLS 52
.05	Trade wastes	10-30,000 mg/L	Based on Hach procedures manual 9th Edition 1999.
.07	Bore Waters	Total Hardness	Konelab CLS 77
.99	Other Waters *Surface waters*	20-3,000 mg/l $CaC0_3$	
		Sulphate 5-3,000 mg/l SO_4	Konelab CLS 88 based on Sulphate in Waters Effluents and Soils, 2nd edition (1988) Method E.

.06	Saline waters	Biochemical Oxygen Demand Surface water: 1- 7,000 mg/L Effluent: 2- 7,000 mg/L	CLS 12
		Suspended Solids (2 to 15,000mg/L)	CLS 13
		COD 10-30,000 mg/L	CLS 52 Based on Hach Procedures Manual 9th Edition 1999.

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**	Cadmium 0.5ug - 5,000ug/L Chromium 0.5ug - 5,000ug/L	Documented in-house method based on: USEPA 200.8 ICP-MS CLS129
.01	Waters for potable and domestic purposes	Copper 1ug - 10,000ug/L Lead 0.5ug - 5,000ug/L Iron 10ug - 10,000ug/L	
.05	Trade wastes	Manganese 5ug - 5,000ug/L Magnesium 0.8mg - 800mg/L	
.07	Bore waters	Calcium 3mg - 3,000mg/L Potassium 0.5mg - 500 mg/L	
.99	Other waters *Surface waters*	Sodium 1mg - 1,000mg/L Zinc 5ug - 10,000ug/L Arsenic 0.5ug/L - 5,000ug/L Selenium 0.5ug/L - 5,000ugL Nickel 0.5ug/L - 5,000ug/L Aluminium 2ug/L - 10,000ug/L (20ug/L - 10,000ug/L for .05) Tin 0.5ug/L - 5,000ug/L Beryllium 0.5ug/L - 5,000ug/L Barium 0.5ug/L - 5,000ug/L Boron 10ug/L - 10,000ug/L Antimony 0.5ug/L - 5,000ug/L Molybdenum 0.5ug/L-5,000ug/L Cobalt 0.5ug/L - 5,000ug/L Strontium 5ug/L - 5,000ug/L Thallium 0.5ug/L- 5,000ug/L Tellurium 0.5ug/L - 5,000ug/L Vanadium 0.5ug/L - 5,000ug/L	

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**		In house method
.01	Waters for potable and domestic purposes	Colour, 4.0 – 500 mg/l	CLS29 based on Standard methods for examination of water and waste water 21st Edition 2005
.05	Trade wastes	Turbidity, 0.2 – 4000 NTU	CLS30, based on Standard methods for examination of water and waste water 21st Edition2005
.06	Saline Waters		
.07	Bore waters	Total P, 0.05 to 1000mg/L PO4-P	
.99	Other waters		CLS151 based on ISO 6878-D11 (Macherey Nagel)
	Surface waters	Total Organic carbon (NPOC) 1-1000mg/l	
		Total Nitrogen 0.5 – 1000 mg/l	CLS150 based on USEPA 415.1 and Shimadzu User Manual for TOC V-CPH/CPN
		Extractable Hydrocarbons (Diesel Range Organics - DRO) by GC-FID DRO (n-C8 to n-C40) total & dissolved 100 to 10,000µg/l.	CLS 152 based on ISO11905-2
		DRO Dissolved Phase based on single component assesment. (n-C8 to n-C40) 10 to 10,000 µg/l	CLS 147 method based on USEPA 8015B.
		DRO (n-C8 to n-C40) total & dissolved 200ug/l to 10,000ug/l	

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**		In house method
.01	Waters for potable and domestic purposes	Petrol range organics(PRO) (n-C5 to n-C12)	CLS148 based on USEPA 8015B
.05	Trade wastes	PRO - Total and dissolved 100 to 56, 250µg/l	
.06	Saline Waters	PRO dissolved phase, based on single component assessment 10-56, 250µg/l	
.07	Bore waters	Benzene – 10-10,000µg/l	
.99	Other waters	Toluene - 10-10,000µg/l	
	Surface waters	Ethylbenzene - 10-10,000µg/l	
		M, p, o-Xylene - 10-10,000µg/l	
		t-butyl methyl ether - 10-10,000µg/l	

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**		CLS 149 PAH based on ISO 17993 and Agilent 12000 series G1321A user manual
.01	Waters for potable and domestic purposes	Polycyclic Aromatic Hydrocarbons by HPLC Naphthalene 50-400 ng/l Acenaphthylene 50-400 ng/l Acenaphthene 50-400 ng/l (Surface water), 10 - 400 ng/l (Drinking water) Fluorene 10 - 400 ng/l Phenanthrene 50 - 400 ng/l (Surface water), 10 - 400 ng/l (Drinking water) Athracene 10 - 400 ng/l Fluoranthene 10 - 400 ng/l Pyrene 50-400 ng/l Benzo (a) anthracene 10 -400 ng/l Chrysene 10 - 400 ng/l Benzo (b) fluoranthene 10 - 400 ng/l Benzo (k) fluoranthene 10 - 400 ng/l Benzo (a) pyrene 10 - 400 ng/l (Surface water), 5 - 400 ng/l (Drinking water) Dibenzo (a,h) anthracene 10 - 400 ng/l Benzo (g,h,i) perylene 10 - 400 ng/l Indeno (1,2,3-cd) pyrene 10 - 400 ng/l	
.99	Other waters *Surface waters*		

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	**Waters**		In house method
.01	Waters for potable and domestic purposes	Conductivity at 20°C, 5 uS/cm - 12,730 µS/cm 25°C, 5 - 14,090 µS/cm	CLS 67 method based on Standard methods for the examination of water & wastewater, 21st ed. 2005
.05	Trade wastes		
.07	Bore waters		
.99	Other waters *Surface waters*		

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870	**Waters**		Documented in-house method:
.11	Bacteriological condition of potable water	Enumeration of micro-organisms – Colony count technique at 22°C, 30oC and 37°C in water	CLS 95, based on The Microbiology of Drinking Water (2007) Part 7 – Methods for the enumeration of heterotrophic bacteria by pour plate and spread techniques
.12	Bacteriological condition of industrial water	Enumeration of *Pseudomonas aeruginosa*	CLS 44 based on The Microbiology of Drinking Water (2010) Part 8
818	Micro Tests for Factory hygiene purposes	Enumeration of total coliforms at 37°C & *E. coli* at 44°C	CLS 16, Membrane filtration , based on The Microbiology of Drinking Water (2009). Part 4 - Methods for examination of water & associated materials.
.03	Water	Enumeration of total coliforms at 37°C & *E. coli* at 44°C	CLS 33, based on The Microbiology of Drinking water (2009) part 4 - (Colilert)
		Detection of Salmonella	CLS 45, based on The Microbiology of Drinking Water (2006). Part 9 - Isolation of salmonella.
		Enumeration of Enterococci	CLS 42, based on The Microbiology of Drinking Water (2010). Part 5 - Methods for examination of water and associated materials.
		Enumeration of Sulphite Reducing Clostridia and *Clostridium perfringens*	CLS 43, based on The Microbiology of Drinking Water (2010). Part 6 - Methods for examination of water & associated materials.

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870	**Waters including effluents**		Documented in-house method: CLS 100 based on ISO 11731-1:2006
.11	Bacteriological condition of potable waters	Detection and enumeration of *Legionella* spp	
.12	Bacteriological condition of industrial waters (treated,recirculating)		
.18	**Microbiological tests for factory hygiene purposes**		
.03	Water		
870	**Waters including effluents**	Enumeration of *Legionella* species in water and the detection of *Legionella pneumophila.* Serogroups 1 and 2-14.	CLS 101 based on ISO 11731-2:2008
.11	Bacteriological condition of potable waters		
.12	Bacteriological condition of industrial waters (treated,recirculating)		
.15	Bacteriological condition of swimming pools and spas		

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
865	**Aquatic Biology** *(Potable and environmental including surface waters, lakes, rivers and natural waters)*		Documented in-house method:
.42	Enumeration of free-living protozoa	Detection and enumeration of *Cryptosporidium* oocysts	CLS 139 based on US EPA 1623:2005

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
818 Micro Tests for factory hygiene purposes		Documented in-house method:
.01 Surfaces	Enumeration of micro-organisms at 30°C for 48 hrs	CLS 15 based on ISEN ISO 4833:2003 Or CLS 46, based on BS5763 Part 5 1981
	Enumeration of *Staphylococcus aureus*	CLS 3, based on IS EN ISO 6888-1 1999 Amd 2003
	Detection of Salmonella	CLS 2, based on ISO 6579:2002 amd 2007
	Detection of *Listeria monocytogenes*s	CLS 4, based on IS EN ISO 11290-1:1996/A1:2004
	Enumeration of total coliforms	CLS 8, based on ISO 4832:2006
	Enumeration of *E.coli*	CLS 9, based on ISO 16649-1:2001
	Enumeration of Enterobacteriaceae	CLS 21, based on ISO 21528-2:2004
	Enumeration of TVCs (Contact Plate)	CLS 80, based on ISO 18593:2004
	Enumeration of Yeast and Mould	CLS 1 based on ISO 21527-1and 2:2008
	Enumeration of TVC at 22, 30 37C by pour and spread plates by single plate	CLS 132, CLS 133 (In house methods)
	Detection of E Coli 0157	CLS 11 based on ISO16654:2001 CLS 159 based on reveal for E.Coli 0157 20 hour system.

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
818	**Micro Tests for Factory Hygiene purposes**		
.02	Air	Enumeration of TVCs (Air Settlement Plate)	CLS 82 (In-house method)
		Enumeration of yeast and moulds	CLS 130 (In-house method)
811	**Micro Biological Tests on Foods**	Enumeration of micro-organisms at 30°C	Documented in-house method: CLS 15 (Pour Plate) based on IS EN ISO 4833:2003 Or CLS 46 (Spread plate), based on BS 5763: Part 5 1981
.01	Dairy Products		
.03	Meat and meat products, game and poultry	Enumeration of micro-organisms at 37°C	CLS 50 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 49 (Spread plate), based on BS 5763: Part 5 1981
.02	Eggs and egg products		
.15	Confectionery		
.08	Fruit and vegetables	Enumeration of micro-organisms at 22°C	CLS 47 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 48 (Spread plate) based on BS 5763: Part 5 1981
.23	Animal Feeds		
.22	Pet Foods	Enumeration of *Staphylococcus aureus*	CLS 3, based on IS EN IS 6888-1: 1999 Amd 2003

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Micro Biological Tests on Foods**		
.01	Dairy Products	Detection of Salmonella (Primary production samples included as per amd 1:2007)	CLS 2, as per ISO 6579:2002 amd 1:2007
.03	Meat and meat products, game and poultry	Enumeration of Enterobacteriaceae	CLS 21, based on ISO 21528-2:2004
.02	Eggs and egg products		
.15	Confectionery	Detection of *Listeria monocytogenes*	CLS 4, based on IS EN ISO 11290 1:1196/A1:2004
.08	Fruit and vegetables		
.23	Animal Feeds	Enumeration of *E.coli*	CLS 9, based on ISO 16649-1:2001
.22	Pet Foods	Enumeration of *Clostridium perfringens*	CLS 7, based on ISO 7937:2004

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Micro Biological Tests on Foods**		Documented in-house method:
.01	Dairy Products	Enumeration of *Bacillus cereus*	CLS 20 Based in ISEN ISO 7932: 2004
.03	Meat and meat products, game and poultry	Enumeration of *Pseudomonas* spp.(for 811.03 only)	CLS 22 Based on ISO13720:1995
.02	Eggs and egg products		
.15	Confectionery		
.08	Fruit and vegetables	Enumeration of *Listeria* Monocytogenes	CLS 6, based on IS EN ISO 11290-2:1998 Amd A1:2004
.23	Animal Feeds		
.22	Pet Foods	Enumeration of total coliforms	CLS 8, based on ISO 4832:2006

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Micro Biological Tests on Foods**		
.04	Fish Shellfish and Molluscs	Enumeration of micro-organisms at 30°C	CLS 15 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 46 (Spread plate), based on BS 5763: Part 5 1981
		Enumeration of micro-organisms at 37°C	CLS 50 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 49 (Spread plate), based on BS 5763: Part 5 1981
		Enumeration of micro-organisms at 22°C	CLS 47 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 48 (Spread plate), based on BS 5763: Part 5 1981
		Enumeration of *Staphylococcus aureus*	CLS 3, based on IS EN ISO 6888-1 1999 Amd 2003
		Detection of Salmonella	CLS 2, based on ISO 6579:2002, Amd 1:2007
		Enumeration of Enterobacteriaceae	CLS 21, based on ISO 21528-2:2004

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Micro Biological Tests on Foods**		
.04	Fish Shellfish and Molluscs	Detection of *Listeria monocytogenes*	CLS 4, based on IS EN ISO 11290-1:1996/A1:2004
		Enumeration of Listeria monocytogenes	CLS 6 based on ISO 11290-2:1998/A1:2004
		Enumeration of *Pseudomonas* spp	CLS 22 , based on ISO 13720 :1995
		Enumeration of *Colstridium perfringens*	CLS 7, based on ISO 7937:2004
		Enumeration of total coliforms	CLS 8, based on ISO 4832:2006
		Enumeration of *E.coli* using a MPN method (5 tubes, 3 dilutions)	CLS 92 Based on CEFAS SOP Enumeration of *E.coli* in Molluscian Bivalve Shellfish, Issue 7 and ISO 16649-3

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Micro Biological Tests on Foods**		Documented in-house method:
.10	Non-alcoholic beverages	Enumeration of micro-organisms at 30°C	CLS 15 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 46 (Spread plate),based on BS 5763:Part 5 1981
		Enumeration of micro-organisms at 37°C	CLS 50 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 49 (Spread plate),based on BS 5763:Part 5 1981
		Enumeration of micro-organisms at 22°C	CLS 47 (Pour plate), based on IS EN ISO 4833:2003 Or CLS 48 (Spread plate),based on BS 5763: Part 5 1981
		Enumeration of *Clostridium perfringens*	CLS 7, based on ISO 7937:2004
		Enumeration of *Pseudomonas* spp	CLS 22, based on ISO 13720:1995

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
817	**Testing of Surfaces in abattoirs**		
.01	Meat surfaces	Enumeration of micro-organisms at 30 ºC	CLS 15, based on IS EN ISO 4833:2003
.02	Product contact *Surfaces*	Enumeration of Enterobacteriaceae	CLS 21, based on ISO 21528-2:2004
		Detection of Salmonella	CLS 2, based on ISO 6579:2002, Amd 1:2007

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Microbiological tests on foods**		
.01	Dairy Products	Enumeration of TVC @ 22,30, 37ºC by pour and spread plates by single plate	CLS 132, CLS 133 (In-house methods)
.02	Eggs and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs	Enumeration of Enterobacteriaceae by single plate (Except 811.10 & 811.11)	CLS 134 (In-house method)
.08	Fruit and vegetables		
.10	Non-alcoholic beverages		
.22	Pet Foods		
.23	Animal Feeds	Detection of Salmonella (Except 818.01, 811.04)	CLS 131 based on Bioline Optima Elisa
811	**Microbiological tests on foods**		
.01	Dairy Products	Enumeration of Yeast and Mould	CLS 1 based on 21527-1 and 2:2008.
.07	Cereals and bakery products		
.08	Fruit and vegetables		
.10	Non-alcoholic beverages		
.17	Prepared dishes		

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811	**Microbiological tests on foods**	Detection of Ecoli 0157	CLS 11 based on ISO 16654:2001
.01	*Dairy Products*		
.03	Meat and meat products, game and poultry		CLS 159 based on reveal for E. Coli 0157 20 hour system
.06	Soups, broths and sauces		
.07	Cereals and bakery products		
.17	Prepared dishes		

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Permanent Laboratory:

Category A

Biological Testing Laboratory, Galway site

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870	**Waters**		Documented in-house method:
.11	Bacteriological condition of potable water	Enumeration of micro-organisms – Colony count technique at 22°C and 37°C in water	CLS 95, based on The Microbiology of Drinking Water (2002) Part 7 – Methods for the enumeration of heterotrophic bacteria by pour plate and spread techniques
.12	Bacteriological condition of industrial water	Enumeration of *Pseudomonas aeruginosa*	CLS 44 , based on The Microbiology of Drinking Water (2010) Part 8
		Enumeration of Total Viable Counts at 22C, 35C and 37C (for category .12 only, industrial waters only)	CLS 137 fluid monitoring, membrane filtration based on HTM 2030 Part 3 testing of Endoscopy waters. CLS 160 fluid monitoring membrane filtration based on ISO 13959:2009 Water for Haemodialysis, USP 1230 Water for Haemodialysis
818	**Microbiological tests for Factory Hygiene purposes**	Enumeration of total coliforms and E.Coli	CLS 33 Colilert Idexx Quanti Tray method, based on The Microbiology of Drinking water (2009) part 4 - CLS 16 Membrane filtration, based on Microbiology of Drinking water (2009) part 4.
.03	Water		
		Enumeration of Enterococci	CLS 42, based on The Microbiology of Drinking Water (2010). Part 5 - Methods for examination of water and associated materials.
		Enumeration of sulphite reducing	CLS 43, based on

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Biological Testing Laboratory, Galway site

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
	Clostridia and Clostridium Perfingens	The Microbiology of Drinking Water (2010). Part 6 - Methods for examination of water & associated materials.