

Accreditation Certificate

T.E. Laboratories Ltd.

Loughmartin Business Park, Tullow, Carlow, R93 N529

Testing Laboratory

Registration number: 106T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the scope bearing the registration number detailed above, in conformity with **ISO/IEC 17025:2017**


*“General requirements for the competence of testing and calibration laboratories”
(This certificate must be read in conjunction with the publicly available scope of accreditation)*

Date of award of accreditation: 15/02/2002

Date of last renewal of accreditation: 18/01/2016

Expiry date of this certificate of accreditation: 18/01/2021

This accreditation shall remain in force until further notice subject to continuing conformity with the above standard, applicable EA/ILAC requirements and any further requirements specified by the Irish National Accreditation Board.

Manager: 
Dr Adrienne Duff

Chairperson: : 
Ms Ita Kinahan

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



Organisation Name	T.E. Laboratories Ltd.
Trading As	
INAB Reg No	106T
Contact Name	Breda Moore
Address	Loughmartin Business Park, Tullow, Carlow, R93 N529
Contact Phone No	059 9152881
Email	bmoore@tellab.ie
Website	http://www.tellab.ie
Accreditation Standard	ISO 17025 T
Date Initially Awarded	15/02/2002
Scope Classification	Chemical testing
Services available to the public ¹	Yes

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Head Office	Loughmartin Business Park, Tullow, Carlow, R93 N529

Scope of Accreditation

Head Office

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .01 Metal analysis	Trace elements (dissolved)	Cadmium	0.03-20 mg/l	Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
		Chromium	0.05-50 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
		Cobalt	0.12-30 mg/l	Other waters: Effluents; waters for potable and domestic purpose	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
		Copper	0.05-50 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
		Iron	0.05-50 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)

		Lead	0.2-90 mg/l	Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100)	TP001 based on APHA 23rd Edition 3111B(2017)
		Manganese	0.03-20 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
		Nickel	0.10-20 mg/l	Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100)	TP001 based on APHA 23rd Edition 3111B(2017)
		Zinc	0.01-10 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Direct Aspiration. Flame AAS Perkin Elmer1100	TP001 based on APHA 23rd Edition 3111B(2017)
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	COD	COD	4-5000 mg/l	Sewage, trade wastes, bore waters, other waters: surface water	HACH Digestion + Spectrophotometric determination	TP006 based on APHA 23rd Edition 5200 closed reflux colorimetric (2017).
766 Environmental testing (inc waters) - .05 Inorganic	Ammonia	Ammonia	0.10-50 mg/l as NH4	Sewage, trade wastes, bore waters, other waters: surface water	Spectrophotometric. (Phenate Method)	TP012 based on APHA 23rd Edition 4500-NH3 F (2017)
	Anions (Dissolved)	Chloride	0.25-5000 mg/l	Water for potable and domestic purpose . Other waters: ground waters, surface waters & effluents	Ion Chromatography - Metrohm Eco IC	TP020 - based on USEPA300 (1993)
			0.5-5000 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
		Fluoride	0.1-50 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
		Fluoride	0.1-50 mg/l	Water for potable and domestic purpose . Other waters: ground waters & surface waters	Ion Chromatography- Metrohm Eco IC	TP020 based on USEPA300 (1993)

	Nitrate	0.06-1129 mg/l as N	Water for potable and domestic purpose . Other waters: ground waters, surface waters & effluents	Iom Chromatography - Metrohm Eco IC	TP020 - based on USEPA300 (1993)
		0.11-1129 mg/l as N	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
	Nitrite	0.06-250 mg/ as N	Water for potable and domestic purpose . Other waters: ground waters, surface waters & effluents	Iom Chromatography- Metrohm Eco IC	TP020 - based on USEPA300 (1993)
		0.06-250 mg/l as N	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
	Orthophosphate	0.33-81.6 mg/l as P	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
	Phosphate	0.16-81.6 mg/l as P	Water for potable and domestic purpose . Other waters: ground waters & surface waters	Iom Chromatography - Metrohm Eco IC	TP020 -based on USEPA300 (1993)
	Sulphate	0.25-10,000 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
		0.25-10000 mg/l	Water for potable and domestic purpose . Other waters: ground waters & surface waters	Iom Chromatography - Metrohm Eco IC	TP020 -based on USEPA300 (1993)
	Total Oxidized Nitrogen (calculated from the sum of Nitrate and	0.12-1205 mg/l as N	Water for potable and domestic purpose . Other waters: ground waters, surface waters & effluents	Iom Chromatography - Metrohm Eco IC	TP020 - based on USEPA300 (1993)

	Total Oxidized Nitrogen (calculated from the sum of Nitrate and Nitrite)	0.17-1205 mg/l as N	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex IC DX-120	TP002 based on USEPA 300.0 (1993)
Cations	Calcium	2.5-10,000 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex DX-120	TP004 based on ISO 14911:2008
	Hardness by calculation of magnesium and calcium values		Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex DX-120	TP004 based on ISO 14911:2008
	Magnesium	1-625 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex DX-120	TP004 based on ISO 14911:2008
	Potassium	1-2500 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex DX-120	TP004 based on ISO 14911:2008
	Sodium	1-10,000 mg/l	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Ion Chromatography - Dionex DX-120	TP004 based on ISO 14911:2008
Conductivity	Conductivity	5-12,500 uS/cm	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Orion 150 Conductivity meter +conductivity probe with platinum electrodes.	TP005 based on APHA 23rd Edition 2510B(2017)
Suspended Solids	Suspended Solids	2-1000 mg/l	Sewage, trade wastes, bore waters, other waters: surface water	Gravimetric determination	TP015 based on APHA 23rd Edition 2540D (2017) (Total Suspended Solids dried at 100-105oC)

	Total Phosphorus	Total Phosphorus	0.05-50 mg/l as P	Sewage, trade wastes, bore waters, other waters: surface water	HACH Digestion + Spectrophotometric determination.	TP011 based on APHA 23rd Edition 4500P-E (2017) and HACH method 8190 Edition 8, 04/2013
767 Physical test/measurement - .01 pH	pH	pH	2-12	Water for potable and domestic purpose. Other waters: ground waters, surface waters, Effluents, Leachates	Orion 420A pH meter +pH electrode. Electrometry	TP003 (Electrometry) based on APHA 23rd Edition 4500H+B(2017)