

Schedule of Accreditation



Organisation Name	Public Analyst's Laboratory Cork
Trading As	
INAB Reg No	81T
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Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	18/08/1997
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	St Finbarr's Hospital, Douglas Road, Cork, T12 XH60

Scope of Accreditation

Head Office

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
751 Food testing - .02 Nutritional analysis	Ascorbic Acid	Ascorbic Acid	2 - 100 mg/100 ml	Fruit Juices, Non-Alcoholic Beverages	Method 1/11 : Ascorbic Acid by Titration	In-house Test Procedure 1/11
	Moisture and Fat content of meat and meat products.	Moisture, Fat	32-78 g/100g Moisture, 1.9-42 g/100g Fat	Meat and Meat Products	Smart 6 Moisture Analyser, Oracle Fat Analyser	In-House Test Procedure 1/59 and 1/60
	Sorbic Acid Content of Alcoholic Beverages	Sorbic Acid	2.0 - 350 mg/L	Alcoholic Beverages	Method 3/3: Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
	Vitamin B2 in Foods by HPLC	Vitamin B2	0.04 - 1.00 mg/100 ml	Milk	Method 3/13 : Vitamin B2 by HPLC	In-house Test Procedure 3/13
			0.4 - 10 mg/100g	Breakfast Cereals	Method 3/13 : Vitamin B2 by HPLC	In-house Test Procedure 3/13
			0.4 - 10 mg/100g (Powders); 0.04 - 1.00 mg/100ml (Liquids)	Infant Formulae	Method 3/13 : Vitamin B2 by HPLC	In-house Test Procedure 3/13
751 Food testing - .03 Compositional analysis	Alcohol (Ethanol) Content of Alcoholic Beverages	Alcohol (Ethanol)	0.3 - 50.0 %v/v	Alcoholic Beverages and Wine, Non-Alcoholic Beverages	Method 2/3 : Alcohol (Ethanol) by Distillation and Density Meter.	In-house Test Procedure 2/3
			0.3 - 50.0 %v/v	Non-Alcoholic	Method 2/1 : Alcohol	In-house Test

				Beverages, Alcoholic Beverages, Wine	(Ethanol) by Gas Chromatography	Procedure 2/1
Ash Content of Meat Products	Ash	0.10 - 20.00 %	Meat, Meat products, Poultry	Method 1/6 : Ash by Muffle Furnace	In-house Test Procedure 1/6	
Benzoic Acid Content of Foods	Benzoic Acid	2.5 - 250 mg/L	Non-Alcoholic Beverages	Method 3/2 : Benzoic Acid in Foods by HPLC	In-house Test Procedure 3/2	
Caffeine in Food and Beverages by HPLC	Caffeine	Solids : 0.1 - 12.00 %; Liquids : 1 - 200 mg/L	Confectionery, Non-alcoholic beverages, Others	Method 3/16 : Caffeine by HPLC	In-house Test Procedure 3/16	
Collagen and Collagen / Protein by Calculation	Collagen	Collagen : Protein Ratio range : 1 - 25% m/m	Meat and Meat Products, Poultry	Method 1/13: Collagen / Protein Ratio Calculation	In-house Test Procedure 1/13	
Congeners in Alcoholic Beverages	Methanol, Ethyl Acetate, Propan-1-ol, 2-Methylpropan-1-ol, 2-Methylbutan -1-ol, 3-Methylbutan-1-ol	10 - 500 mg/L for each congener	Spirit Drinks	Method 2/4 : Congeners by Gas Chromatography.	In-house Test Procedure 2/4	
Determination of Glutamic Acid in Foods by HPLC	Glutamic Acid	1 - 20 g/kg	Meat and Meat Products, Crisps and Snack Foods	Method 3/19 : Glutamic Acid by UFLC	In-house Test Procedure 3/19	
		1 - 20 g/kg	Prepared Dishes	Method 3/19 : Glutamic Acid by UFLC	In-house Test Procedure 3/19	
		1 - 20 g/kg	Soups, Broths and Sauces	Method 3/19 : Glutamic Acid by UFLC	In-house Test Procedure 3/19	
Determination of Nitrite and Nitrate in Food Products	Nitrite and Nitrate	20 - 300 mg/kg Sodium Nitrite; 20 - 820 mg/kg Sodium Nitrate	Meat and Meat Products	Method 3/18 : Determination of Nitrite and Nitrate in Food Products by Ion Chromatography	In-house Test Procedure 3/18	
		20 - 600 mg/kg Nitrate	Baby Foods	Method 3/18 : Determination of Nitrite and Nitrate in Food Products by Ion Chromatography	In-house Test Procedure 3/18	
Determination of Nitrite and Nitrate in Food Products by Dionex Integrion HPIC	Nitrate	60 - 5000 mg/kg Nitrate	Vegetables	Method 3/18 : Determination of Nitrite and Nitrate in Food Products by Ion	In-house Test Procedure 3/18	

				Chromatography	
Fat Content of Milk	Fat Content	0.50 - 8.00 %	Milk	Method No. 1/2 : Gerber Method	In-house Test Procedure 1/2
Hydroxyproline in Meat Products	Hydroxyproline	0.11 - 1.5 % m/m	Meat and Meat Products, Poultry	Method 1/13: Hydroxyproline by Colorimetry	In-house Test Procedure 1/13
Iodine in Milk and Infant Formula by ICP-MS	Iodine	0.13 mg/Kg - 5.00 mg/Kg	Milk and Infant Formula	ICP-MS	In-house Test Procedure 4/22
Nitrogen / Protein Content	Nitrogen / Protein	0.5 -12.0% Nitrogen; 3.1- 75.0 % Protein	Fish, Shellfish & Molluscs	Method 1/5 : Kjeltex Method	In-house Test Procedure 1/5
		0.5 -12.0% Nitrogen; 3.1- 75.0 % Protein	Meat and Meat Products, Poultry	Method 1/5 : Kjeltex Method	In-house Test Procedure 1/5
Non -Fat Solids in Milk	Non-Fat Solids	2.0 - 14.5%	Milk	Method No. 1/9 : Calculation	In-house Test Procedure 1/9
Permitted Colours in Foods by HPLC	Tartrazine, Amaranth, Quinoline Yellow, Ponceau 4R, Sunset Yellow, Allura Red, Red 2G, Carmoisine, Green S, Brilliant Blue FCF, Erythrosine, Patent Blue V.	5 - 250 mg/kg (for each parameter)	Confectionary : Cakes, Biscuits, Desserts, Sweets, Food Additives	Method 3/61 : Permitted Food Colours by HPLC	In-house Test Procedure 3/61
Propionic Acid in Foods by HPLC	Propionic Acid	50 - 4000 mg/kg	Cereals, Bakery Products,	Method 3/53 : Propionic Acid by HPLC	In-house Test Procedure 3/53
Quantitative Determination of Water Soluble Colours Content	Water Solouble Colours	1 - 50 mg/L : Quinoline Yellow, Red 2G, Brilliant Blue FCF, Green S, Patent Blue V, Sunset Yellow, Carmoisine, Tartrazine, Amaranth, Ponceau 4R, Allura Red. 1 - 25 mg/ L : Indigo Carmine.	Liquid Products : Alcoholic Beverages excluding Wine, Non-Alcoholic Beverages.	Method 3/6 : Water Soluble Colours in Foods by HPLC	In-house Test Procedure 3/6
		2 - 50 mg/kg : Quinoline Yellow, Red 2G, Brilliant Blue FCF, Green S,	Confectionary (Water Soluble Sweets)	Method 3/6 : Water Soluble Colours in Foods by HPLC	In-house Test Procedure 3/6

		Erythrosine, Green S, Patent Blue V, Sunset Yellow, Carmoisine, Tartrazine, Amaranth, Ponceau 4R, Allura Red. 10 - 25 mg/ L : Indigo Carmine.			
Sodium Nitrite and Sodium Nitrate in Brines	Sodium Nitrite and Sodium Nitrate	50-3000 mg/kg Sodium Nitrite, 50-2740 mg/Kg Sodium Nitrate	Brines	Method 3/18: Determination of Nitrite and Nitrate in Food Products by Ion Chromatography	In-house Test Procedure 3/18
Soluble Dry Matter	Soluble Dry Matter	1-65%	Jam, Marmalade, Preserves, Jelly, Chutney	Method 1/18 Soluble Dry Matter by Refractometry	In-house Test Procedure 1/18
Sorbic Acid Content of Foods	Sorbic Acid	2.0 - 350 mg/L	Non-Alcoholic Beverages	Method 3/3 : Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
		2.0 - 350 mg/L	Wine	Method 3/3 : Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
		20.0 - 3,500 mg/kg	Cereals and Bakery Products	Method 3/3 : Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
		20.0 - 3,500 mg/kg	Confectionary	Method 3/3 : Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
		20.0 - 3,500 mg/kg	Fruit and Vegetables, Dried Fruit and Dried Vegetables Products	Method 3/3 : Sorbic Acid in Foods by HPLC	In-house Test Procedure 3/3
Sweeteners by HPLC	Acesulfame-K, Aspartame, Saccharin	Acesulfame-K : 20 - 400 mg/L, Aspartame : 40 - 800 mg/L, Saccharin : 10 - 200 mg/L	Non-Alcoholic Beverages	Method 3/7 : Sweeteners by HPLC	In-house Test Procedure 3/7
Total Solids in Milk & Cream	Total Solids	Milk : 2.00 - 14.5%, Cream : 20.00 - 60.00%	Milk and Cream	Method No. 1/1 : Loss on Drying	In-house Test Procedure 1/1

751 Food testing - .06 Allergens	Biogenic Amines	Histamine	10-200mg/Kg	Fish	HPLC	In-house Test procedure 3/24
	Sulphur Dioxide (Tanner Method)	Sulphur Dioxide	10 -3000 mg/kg	Fish, Shellfish & Molluscs	Method 1/4 : Tanner Method	In-house Test Procedure 1/4
			10- 3000 mg/kg	Fruit & Vegetables	Method 1/4 : Tanner Method	In-house Test Procedure 1/4
			10-3000 mg/kg	Minced Meat	Method 1/4 : Tanner Method	In-house Test Procedure 1/4
			10-3000 mg/kg	Processed Meat products	Method 1/4 : Tanner Method	In-house Test Procedure 1/4
	Sulphur Dioxide content of Food and Beverages by Ion Chromatography.		10 -2500 mg/Kg	Meat and Meat Products, Fruit, Vegetables, Fish and Beverages.	Ion Chromatography	In-House Test Procedure 1/49
752 Chemical residue testing - .02 Elements	Arsenic, Cadmium, Mercury, Lead and Nickel in Food and Drink by ICP-MS	Arsenic	0.06 - 12 mg/Kg for solids/semi-solids, 0.01 - 3.0 mg/Kg for liquids.	Food and Drink	ICP-MS	In-house Test Procedure 4/10
		Cadmium	0.004 - 2.0 mg/Kg for solids/semi-solids, 0.002 - 2.0 mg/Kg for liquids.	Food and Drink	ICP-MS	In-house Test Procedure 4/10
		Lead	0.01 - 2.0 mg/Kg for solids/semi-solids, 0.008 - 2.0 mg/Kg for liquids.	Food and Drink	ICP-MS	In-house Test Procedure 4/10
		Mercury	0.02 - 2.0 mg/Kg for solids/semi-solids, 0.01 - 2.0 mg/Kg for liquids.	Food and Drink	ICP-MS	In-house Test Procedure 4/10
		Nickel	0.1 - 12 mg/Kg for solids/semi-solids, 0.06 - 3.0 mg/kg for liquids.	Food and Drink	ICP-MS	In-house Test Procedure 4/10
	Tin in Food and Drink by ICP-MS	Tin	0.5 mg/Kg - 1000 mg/Kg	Food and Drink	ICP-MS	In-house Test Procedure 4/4
766 Environmental testing (inc waters) - .01 Metal analysis	Copper in Water by Atomic Absorption Spectrophotometry	Copper by Atomic Absorption Spectrophotometry	20 -3000 µg / Litre Cu	Water for Potable and Domestic Purposes	Method 5/30 : Copper by Atomic Absorption Spectrophotometry	In-House validated Method based on APHA AWA / WEF 22nd Edition, 2012, Section 3111B

	Iron in Water by Atomic Absorption Spectrophotometry	Iron by Atomic Absorption Spectrophotometry	40 - 2000 µg / Litre Fe	Water for Potable and Domestic Purposes	Method 5/28 : Iron by Atomic Absorption Spectrophotometry	In-House validated Method based on APHA AWA / WEF 22nd Edition, 2012, Section 3111B
	Manganese in Water by Atomic Absorption Spectrophotometry	Manganese by Atomic Absorption Spectrophotometry	20 - 1000 µg/Litre Mn	Water for Potable and Domestic Purposes	Method 5/29 : Manganese by Atomic Absorption Spectrophotometry	In-House validated Method based on APHA AWA / WEF 22nd Edition, 2012, Section 3111B
	Sodium in Water by Flame Emission Spectrophotometry	Sodium by Flame Emission Spectrophotometry	1 - 250 mg / Litre Na	Water for Potable and Domestic Purposes, Bottled Waters	Method 5/43 : Sodium by Atomic Emission Spectrophotometry	In-House validated Method based on APHA AWA / WEF 22nd Edition, 2012, Section 3111B
	Water -Dissolved Lead, Aluminium, Arsenic, Cadmium, Chromium, Nickel and Selenium by ICP-MS	Aluminium	20 - 500 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Arsenic	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Cadmium,	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Chromium	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Lead	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Nickel	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
		Selenium	1 - 50 µg/L	Water, including bottled water	Agilent 7850 ICP-MS	In-house Test Procedure 5/36
	Zinc in Water by Atomic Absorption Spectrophotometry	Zinc by Atomic Absorption Spectrophotometry	20 -800 µg / Litre Zn	Water for Potable and Domestic Purposes	Method 5/31 : Zinc by Atomic Absorption Spectrophotometry	In-House validated Method based on APHA AWA / WEF 22nd Edition, 2012, Section 3111B
766 Environmental testing (inc waters) - .05 Inorganic	pH Measurement of Water	pH of Water	4.00 - 10.00 pH Units	Water for Potable and Domestic Purposes	Method 5/3 : p H Measurement of Water by pH Meter.	Laboratory procedure 5/3 based on Standard Methods for the Examination of Water and Wastewater, 23rd

						Edn.
Ammonium Content in Water	Ammonium in Water by Auto-analyser	0.03 - 0.80 mg/Litre Ammonium	Water for Potable and Domestic Purposes	Method 5/10 : Ammonium by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Chloride in Water	Chloride by Auto-analyser	3 - 300 mg/Litre Chloride	Water for Potable and Domestic Purposes	Method 5/10 : Chloride by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Colour in Water	Colour by UV/VIS Spectrophotometry	2 - 100 mg/Litre Pt - Co.	Water for Potable and Domestic Purposes	Method 5/5 : Colour in Water by UV/Vis Spectrophotometry	Laboratory procedure 5/5 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Conductivity in Water	CONDUCTIVITY	15 microS/ cm - 1999 mS/cm	Water for Potable and Domestic Purposes	Method 5/2 : Conductivity in water by Conductivity Meter	Laboratory procedure 5/2 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Fluoride in Water by Ion Selective Electrode	FLUORIDE	0.2 - 2.0 mg / Litre	Water for Potable and Domestic Purposes	Method 5/1 : Fluoride in water by Ion Selective Electrode	Laboratory procedure 5/1 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Nitrite Content in Water	Nitrite in Water by Auto-analyser	0.02 - 0.60 mg/Litre Nitrite	Water for Potable and Domestic Purposes	Method 5/10 : Nitrite by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	
Sulphate in Water by Ion Chromatography	Sulphate by Ion Chromatography	5 - 350 mg/Litre Sulphate	Water for Potable and Domestic Purposes, Bottled Waters	Method 5/9 : Sulphate in Water by Ion Chromatography.	Laboratory procedure 5/9 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.	

	Total Alkalinity Content in Water	Total Alkalinity by Auto-analyser	10 - 350 mg / Litre as Calcium Carbonate	Water for Potable and Domestic Purposes	Method 5/10 : Total Alkalinity by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.
	Total Hardness Content in Water	Total Hardness by Auto-analyser	10 - 400 mg/Litre as Calcium Carbonate	Water for Potable and Domestic Purposes	Method 5/10 : Total Hardness by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.
	Total Oxidised Nitrogen (TON) content in Water	Total Oxidised Nitrogen (TON) content of Water by Auto-analyser	5.0 - 80 mg/Litre Nitrate	Water for Potable and Domestic Purposes	Method 5/10 : Total Oxidised Nitrate (TON) by Auto-analyser.	Laboratory procedure 5/10 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.
	Turbidity in Water	Turbidity by Turbidimeter	0.1 - 200NTU	Water for Potable and Domestic Purposes	Method 5/4 : Turbidity of Water by Turbidimeter	Laboratory procedure 5/4 based on Standard Methods for the Examination of Water and Wastewater, 23rd Edn.