

Schedule of Accreditation



Organisation Name	Eurofins Food Testing Ireland Limited (Cork)
Trading As	
INAB Reg No	368T
Contact Name	Claire Foley
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	04/01/2018
Scope Classification	Biological and veterinary testing
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	Cork

Scope of Accreditation

Head Office

Biological and Veterinary Testing

Category: A

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference	
819 Bioassays including toxicity tests	Determination of Bacterial Endotoxin (LAL)	Determination of Bacterial Endotoxin (LAL)	Pharmacological Tests on Pharmaceuticals Endotoxin Tests, Purified Water	Gel-Clot Technique	MT127 based on EP2.6.14	

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	Added Water	Added Water	0-50%	Meat & Meat Products, game and poultry	Calculation	FT 577 calculation, based on EU Directive 2001/101
	Apparent fish content	Apparent fish content	10-100%	Meat & Meat Products, game and poultry	Calculation	FT 577 calculation, based on EU Directive 2001/101
	Apparent Total Meat Content	Apparent Total Meat Content	10-100%	Meat & Meat Products, game and poultry	Calculation	FT 577 calculation, based on EU Directive 2001/101
	Ash	Ash	0.1 - 99%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Incineration in a muffle furnace	FT117, based on SI 200 1984 Incineration in a muffle furnace
	Carbohydrate Available Content (by difference)	Carbohydrate Available Content (by difference)	0 - 99%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Calculation	FT218, based on EU food labelling Regulations 1996, as amended 2009
	Carbohydrate Total Content Calculated	Carbohydrate Total Content Calculated	0 - 99%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Calculation	FT218, based on EU food labelling Regulation 1996, as amended 2009
	Chloride Content	Chloride Content	0.01 - 100%	Dairy Products, Meat	Argentometric titration	FT316, based on ISO

and Calculation of NaCl	and Calculation of NaCl		and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	with Potentiometric end point determination	5943:2006 Argentometric titration with Potentiometric end point determination
Connective tissue	Connective tissue	0-20%	Meat & Meat Products, game and poultry	Calculation	FT 577 calculation, based on EU Directive 2001/101
Determination of Calcium	Determination of Calcium	30mg /kg - 40 %	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Absorption method	FT013 Atomic Absorption method based on SI 200 1984
Determination of L-Lactic Acid	L-Lactic Acid/Lactates	10 - 300 mg/100g	Dairy Products	Spectrophotometer	FT320 using commercially available kit based on ISO 8069:2007
Determination of Magnesium	Determination of Magnesium	3mg/kg - 50 %	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Atomic Absorption	FT013 Atomic Absorption method based on SI 200 1984
Determination of Nitrate as NO ₃	Determination of Nitrate as NO ₃	2.5 to 5000 mg/kg 3.4 to 6850 mg/kg as NaNO ₃	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special	Cadmium Reduction	FT438/ISO14673-3/IDF189-3 FIA Cadmium Reduction

			nutritional uses, Pet foods		
Determination of Potassium	Determination of Potassium	3mg/kg - 60%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Absorption method	FT022 Atomic absorption method
Determination of Sodium and calculation of salt (Na x 2.5)	Determination of Sodium and calculation of salt (Na x 2.5)	3mg/kg - 60%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Absorption method	FT022 Atomic absorption method
Determination of Sodium Nitrate and Sodium Nitrite	Determination of Sodium Nitrate and Sodium Nitrite	0.01 - 10%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods, Brine Powdered Brine	Cadmium Reduction.	FT438/ISO14673-3/IDF189-3 FIA Cadmium Reduction.
Determination of Undenatured Whey Protein Nitrogen Index (uWPNI) in milk, concentrated milk and dried milk	Determination of Undenatured Whey Protein Nitrogen	0.75 -7.5 mg/g WPNI	Dairy Products	Spectrophotometer at 420 nm	FT106 based on ADPI Bulletin 916
Energy (Calculated)	Energy (Calculated)	n/a	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and	Calculation	FT389, based on EU food labelling Regulations 1996, as amended 2009

			vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods		
Excess fat	Excess fat	0-20%	Meat & Meat Products, game and poultry	Calculation	FT 577 calculation, based on EU Directive 2001/101
Fat (total)	Fat (total)	0.05 - 84%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	CEM Smart Trac	GCM 001 (NMR)
Fat Content-Dried Milk	Fat Content	0.5 - 70%	Dairy Products	Rose Gottlieb principle	FT242 based on IDF: 9: 2008 -Mojonnier/Rose Gottlieb
Fat Content-Liquid Milk		0.05 - 11.0%	Dairy Products	Rose Gottlieb principle	FT242 based on IDF:1D 1196-Mojonnier/Rose Gottlieb
Fatty Acid Profile includes saturates: - Monounsaturates - Polyunsaturates	Fatty Acid Profile includes saturates: - Monounsaturates - Polyunsaturates	0.1-90%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Gas Chromatographic Separation	CT671 GLC Method based on ISO 15884 and ISO 15885
Moisture content in butter	Moisture content	14 – 18% by mass	Dairy Products	Oven Drying 102°C	FTC04 based on ISO 8851-1:2004 / IDF – 191-1:2004 (Routine method)
Nitrogen	Nitrogen	0.1 - 15.5%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared	Leco Analyser	CKAM081 using Leco Analyser

			dishes, Foodstuffs intended for special nutritional uses, Pet foods		
Non Protein Nitrogen	Non Protein Nitrogen	0.04-1.5%	Dairy Products	TCA extract and Kjeldahl	FT419 based on IDF20 Part 4 TCA extract and Kjeldahl
Protein	Protein	0.5 - 97%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Leco Analyser	CKAM081 using Leco Analyser
Protein (N x Factor)	Protein (N x Factor)	0.05 - 95%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Kjeldahl	FT001 Kjeldahl, based on IDF 20-3 : 2004
Protein Content-Dairy Products (Nx6.38)	Protein Content	0.05 - 95%	Dairy Products	Kjeldahl	FT001 based on IDF20-3:2004 Kjeldahl
Sugars	Fructose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food	Anion Exchange Chromatography	FT578
	Galactose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry	Anion Exchange Chromatography	FT578

		Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food		
Glucose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food	Anion Exchange Chromatography	FT578
Lactose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food	Anion Exchange Chromatography	FT578
Maltose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including	Anion Exchange Chromatography	FT578

				Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food		
	Sucrose	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food	Anion Exchange Chromatography	FT578	
	Total Sugars	0.1 to 90 g/100 g	Dairy Products Meat & Meat Products, Game & Poultry Products Fish Products Soup Sauces including Preserves Cereal & Bakery Products Fruit & Veg Non Alcoholic Beverages (Flavoured Water) Ices & Desserts Confectionary Prepared Dishes Foodstuff intended for special nutritional uses Pet Food	Anion Exchange Chromatography	FT578	
Sugars- lactose, sucrose, fructose, glucose, maltose, total sugars (calculated)	Sugars- lactose, sucrose, fructose, glucose, maltose, total sugars (calculated)	Liquid foods (0.02 - 20%) Other sample types (0.1-90%)	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts,	HPLC	CT712 based on J.AOAC 62, 1292,1979, HPLC method	

				Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods		
	Total Phosphorous	Total Phosphorous	0.01 - 60%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Molybdovanadate Colorimetric	FT014 Molybdovanadate Colorimetric method based on SI 200 1984
	Total solids / Moisture	Total solids / Moisture	0.1-99.9%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Oven Dry at 102°C	FT007 (Oven Dry at 102°C)
	Total Solids / Moisture	Total Solids / Moisture	12-92%	Dairy Products, Meat and Meat Products, game and poultry products, Fish Products, Soups and Sauces, Cereal & bakery products, Fruit and vegetables, Non-alcoholic beverages (Flavoured Waters), Ices and deserts, Confectionary, Prepared dishes, Foodstuffs intended for special nutritional uses, Pet foods	Microwave	AM188/IHM/C(microwave), in house validated method
	Water Content-Dried Milk and Dried Cream	Water Content	0.05 - 5.0%	Dairy Products	Oven Drying 102°C	FT267 based on IDF: 26A:1193-Oven Drying at 102°C
766 Environmental testing (inc waters) - .01 Metal analysis	Potassium	Potassium	50-10000 mg/kg	Constituents of the Environment: Sediments, Solid waste	Atomic Absorption	FT022 Atomic Absorption, based on SI200 1984
	Calcium	Calcium	Potable: 1 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water	Atomic Absorption	ET254 based on APHA 23rd edition, 2017 3111B

				treatment plant effluent (WWTP effluent),Other waters (Surface Water)		
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	Biochemical Oxygen Demand (BOD/ cBOD)	Biochemical Oxygen Demand (BOD/ cBOD)	Sewage: 15 - 1,000 mg/l Trade Waste + WWTP Effluent:2 – 40,000 mg/l	Waters: Waters for potable and domestic purposes,Sewage,Trade wastes,Bore waters,Waste water treatment plant effluent (WWTP effluent),Other waters (Surface Water)	Meter Method	ET066 based on APHA 23rd edition, 2017:5210:B DO Meter Method
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Chemical Oxygen Demand (COD)	Chemical Oxygen Demand (COD)	Sewage + WWTP Effluent: 5 – 40,000 mg/l Trade Waste: 5 – 60,000 mg/l	Waters: Waters for potable and domestic purposes,Sewage,Trade wastes,Bore waters,Waste water treatment plant effluent (WWTP effluent),Other waters (Surface Water)	Colormetric	ET068 based on APHA 23rd edition, 2017, 5220D Colormetric
766 Environmental testing (inc waters) - .04 Organic	Fat	Fat	0.1 - 50%	Constituents of the Environment: Sediments, Solid waste	CEM Smart Trac	GCM001 (NMR) in house validated method
	Nitrogen	Nitrogen	0.1 - 15.5%	Constituents of the Environment: Sediments, Solid waste	Leco Analyser	CKAM081 using Leco Analyser
	Oils, Fats & Grease (OFG)	Oils, Fats & Grease (OFG)	(Sewage, Trade waste + WWTP effluent: 5 – 200 mg/l	Waters: Waters for potable and domestic purposes,Sewage,Trade wastes,Bore waters,Waste water treatment plant effluent (WWTP effluent),Other waters (Surface Water)	Gravimetric	ET084 based on USEPA 1664 Gravimetric method
	Protein	Protein	0.5 - 97%	Constituents of the Environment: Sediments, Solid waste	Leco Analyser	CKAM081 using Leco Analyser
	Total Dissolved Solids (TDS) (by calculation) (Potable)	Total Dissolved Solids (TDS) (by calculation) (Potable)	n/a	Waters: Waters for potable and domestic purposes,Sewage,Trade wastes,Bore waters,Waste water treatment plant effluent (WWTP effluent),Other waters (Surface Water)	Calculation	ET060 based on APHA 23rd edition, 2017: 2330
	766 Environmental testing (inc waters) - .05 Inorganic	Ammonia / Ammonium as N	Ammonia / Ammonium as N	Potable + Surface:0.02 – 5.0 mg/l Sewage: 10 - 100 mg/l Trade waste +WWTP effluent: 0.2 – 100 mg/l	Waters: Waters for potable and domestic purposes,Sewage,Trade wastes,Bore waters,Waste water treatment plant effluent (WWTP effluent),Other waters (Surface Water)	Colorimetric Method
Ammonia as N		Ammonia as N	0.02 – 1.2mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on APHA 23rd Edition 2017 4500-NH3 G
			0.5 – 100mg/l	Sewage Trade Waste WWTP Effluent	AQ2 Discrete Analyser	ET300 Based on APHA 23rd Edition 2017 4500-NH3 G
Ammonia as NH3		Ammonia as NH3	0.03 –1.4mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on APHA 23rd Edition 2017 4500-

					NH3 G
Chloride as Cl	Chloride as Cl	Portable: 0.35 – 500 mg/l Sewage: 1 – 500 mg/l Trade Waste: 1 – 5,000 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Ion Chromatography	ETC98 based on APHA 23rd edition, 2017, 4110B ion chromatography
Chloride mg/l	Chloride mg/l	10– 5000mg/l	Trade Waste	AQ2 Discrete Analyser	ET300 Based on HMSO MEWAM (1981)
		2.0 – 250mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on HMSO MEWAM (1981)
Kjeldahl Nitrogen	Kjeldahl Nitrogen	0.01-1.00%	Constituents of the Environment: Sediments, Solid waste	Kjeldahl	FT001 based on IDF 20-3 :2004
Magnesium	Magnesium	Potable: 1.0 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Atomic Absorption	ET254 based on APHA 23rd edition, 2017:3111B
Nitrate as N	Nitrate as N	0.5 - 20mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
		0.5 – 50mg/l	Trade Waste WWTP Effluent	AQ2 Discrete Analyser	ET300
Nitrate as N	Nitrate as N	Potable, Sewage, Trade waste + WWTP effluent: 0.5 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Colormetric	ET235 based on APHA 23rd edition, 2017: 4500:NO3:I FIA/Colorimetric
Nitrate as NO3	Nitrate as NO3	3 – 220mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
Nitrite as N	Nitrite as N	0.01 – 1.0mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
		0.5 – 5mg/l	Trade Waste WWTP Effluent	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
Nitrite as N	Nitrite as N	Potable: 0.01 – 0.05 mg/l Sewage, Trade waste + WWTP effluent: 0.5 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Colormetric	ET043 based on CMWT BDH 1973 2nd Ed ET235 based on APHA 23rd edition, 2017: 4500:NO3:I FIA/Colorimetric
Nitrite as NO2	Nitrite as NO2	0.03 – 3.0mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
Potassium	Potassium	Potable: 1.0 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Atomic Absorption	ET252 based on APHA :23rd edition, 2017:3111B
Sodium	Sodium	Potable: 1.0 – 100 mg/l	Waters: Waters for potable and domestic	Atomic Absorption	ET252 based on APHA 23rd edition, 2017: 3111B

			purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)		
Soluble Reactive Phosphorus as P (SRP/MRP)	Soluble Reactive Phosphorus as P (SRP/MRP)	Sewage, Trade waste + WWTP effluent: 0.03 – 5.0 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Colormetric	ETG02 (Ganimede) based on ISO 6878:2004
Sulphate	Sulphate	10 – 5000mg/l	Trade Waste	AQ2 Discrete Analyser	ET300 Based on HMSO MEWAM (1981)
		2.0 – 250mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on HMSO MEWAM (1981)
		Potable: 0.2 – 500 mg/l Sewage + WWTP effluent: 1 – 500 mg/l Trade Waste: 1 – 5,000 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Ion Chromatography	ETC98 based on APHA 23rd edition, 2017: 4110B Ion Chromatography
TON as N	TON as N	0.5 - 20mg/l	Potable	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
		0.5 – 50mg/l	Trade Waste WWTP Effluent	AQ2 Discrete Analyser	ET300 Based on USEPA, Method 353.1
Total Kjeldahl Nitrogen as N (by calculation using results from methods ETG03 + ETG235)	Total Kjeldahl Nitrogen as N (by calculation using results from methods ETG03 + ETG235)	Sewage, Trade Waste + WWTP Effluent: 1.0 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Calculation	ETG19 based on APHA 23rd edition, 2017: 4500
Total Nitrogen as N	Total Nitrogen as N	Surface: 1 -30 mg/l Sewage: 10 - 100 mg/l Trade waste + WWTP effluent: 1 -100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Total Nitrogen Analyser	ETG03 (Ganimede) based on ISO 11905-1:1998
Total Oxidised Nitrogen as N	Total Oxidised Nitrogen as N	Sewage, Trade waste + WWTP effluent: 0.5 – 100 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Colorimetric Method	ET235 based on APHA :23rd edition, 2017 4500: NO3:I FIA/Colorimetric
Total Phosphorus	Total Phosphorus	Total Phosphorus	Constituents of the Environment: Sediments, Solid waste	Molybdovanadate Colorimetric Method	FT014 based on Molybdovanadate Colorimetric Method
Total Phosphorus as P	Total Phosphorus as P	Sewage: 0.75 – 50 mg/l Trade waste + WWTP effluent: 0.05 - 50 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other	Total Phosphorus Analyser	ETG01 (Ganimede) based on ISO 6878:2004

				waters (Surface Water)		
767 Physical test/measurement - .01 pH	pH (pH units)	pH (pH units)	Potable, Sewage, Trade waste + WWTP effluent: 4 – 10	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Meter Method	ET124 based on APHA 23rd edition, 2017:4500H:BMeter method
767 Physical test/measurement - .02 Conductivity	Electrical Conductivity	Electrical Conductivity	Potable, Bore, Surface + Sewage: 5 – 1,400 µS/cm Trade waste: 5 – 10,000 µS/cm	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Meter Method	In house methods; ET056/APHA 23rd edition, 2017:2510:BMeter method
767 Physical test/measurement - .03 Suspended Solids	Suspended Solids (SS/ MLSS)	Suspended Solids (SS/ MLSS)	Sewage: 20 - 1,000 mg/l (Sewage) Trade Waste + WWTO Effluent: 3 – 10,000 mg/l	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Filtration	ET042 based on APHA :23rd edition, 2017: 2540:D
797 Miscellaneous materials and products - .01 Chemical tests	Ash	Ash	0.1 - 99%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Incineration in a muffle furnace	FT117, based on SI 200 1984 incineration in a muffle furnace
	Carbohydrate Available Content (by difference)	Carbohydrate Available Content (by difference)	0-99%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Calculation	FT218, based on EU food labelling regulations 1996
	Carbohydrate Total Content Calculated	Carbohydrate Total Content Calculated	0-99%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Calculation	FT218, based on EU food labelling regulations 1996
	Chloride Content and Calculation of NaCl	Chloride Content and Calculation of NaCl	0.01 - 90%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Argentometric titration with Potentiometric end point determination	FT316, based on ISO5943:2006 Argentometric tit. with Potentiometric end point
	Determination of Calcium	Determination of Calcium	30mg /kg - 40 %	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Atomic absorption	FT013 Atomic Absorption method based on SI 200 1984
	Determination of Magnesium	Determination of Magnesium	3mg/kg - 50 %	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in	Atomic absorption	FT013 Atomic Absorption method based on SI 200 1984

			stockfoods, Other agricultural products Premixes, Additives		
Determination of Potassium	Determination of Potassium	3mg/kg - 60%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Atomic absorption	FT022 Atomic Absorption method
Determination of Sodium and calculation of salt (Na x 2.5)	Determination of Sodium and calculation of salt (Na x 2.5)	3mg/kg - 60%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Atomic absorption	FT022 Atomic absorption method
Energy (Calculated)	Energy (Calculated)	n/a	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Calculation	FT389, based on EU food labelling regulations 1996 as amended 2009
Fat (total)- Meat & Bone Meal	Fat (total)- Meat & Bone Meal	0.05 -84%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	CEM Smart Trac	In house method GCM001 (NMR)
Insoluble Impurities	Insoluble Impurities	n/a	Fats, oils and waxes: Animal sources	Gravimetric	In house gravimetric method FT182, based on ISO 663:2007 and AOCS Ca 3a-46:2011
Moisture	Moisture	12 - 92%	Agricultural Products and Materials: Cereal, Grains and by-products, Stockfoods, Vitamins in stockfoods	Microwave	AM188/IHM/C (microwave), in house validated method
Nitrogen	Nitrogen	0.1 - 15.5%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Leco Analyser	CKAM081 using Leco Analyser
Protein	Protein	0.5 - 97%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Leco Analyser	CKAM081 using Leco Analyser
Protein (N x Factor)	Protein (N x Factor)	0.05 - 95%	Agricultural Products and Materials: Cereal, Grains and by-products,	Kjeldahl	FT001 Kjeldahl, based on IDF 20-3 :2004

				Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives		
	Total Phosphorous	Total Phosphorous	0.01 - 60%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Molybdovanadate Colorimetric	FT014 Molybdovanadate Colorimetric method based on SI 200 1984
	Total solids/Moisture	Total solids/Moisture	0.1-99.9%	Agricultural Products and Materials: Cereal, Grains and by-products, Oil seeds and By Products, Stockfoods, Vitamins in stockfoods, Other agricultural products Premixes, Additives	Oven Dry at 102°C	FT007 (Oven Dry at 102°C), based on SI 200 1984
797 Miscellaneous materials and products - .02 Physical tests	Total Anions (by calculation) (Potable)	Total Anions (by calculation) (Potable)	n/a	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Calculation	ET060 based on APHA 23rd edition, 2017: 2330
	Total Cations (by calculation) (Potable)	Total Cations (by calculation) (Potable)	n/a	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Calculation	ET060 based on APHA 23rd edition, 2017: 2330
	Total Hardness (by calculation) (Potable)	Total Hardness (by calculation) (Potable)	n/a	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Calculation	ET057 based on APHA 23rd edition, 2017: 2340B
	Total Solids	Total Solids	0.5 - 90%	Constituents of the Environment: Sediments, Solid waste	Oven Dry at 102°C	FT007 oven dry at 102° C
	Turbidity	Turbidity	Potable, Sewage, Trade waste + WWTP effluent: 0.05 – 40 NTU	Waters: Waters for potable and domestic purposes, Sewage, Trade wastes, Bore waters, Waste water treatment plant effluent (WWTP effluent), Other waters (Surface Water)	Meter Method	ET041 based on APHA 23rd edition, 2017 : 2130B