Schedule of Accreditation

Organisation Name	Dairygold Agri Business Limited
Trading As	Dairygold Analytical Services Laboratory
INAB Reg No	7T
Contact Name	Aileen O'Sullivan
Address	Lombardstown, Mallow, Cork, P51 F992
Contact Phone No	022-31580
Email	feedlaboratory@dairygold.ie
Website	http://www.dairygold.ie
Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	11/04/1989
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	Dairygold Analytical Services Laboratory	Lombardstown, Mallow, Cork, Ireland, P51 F992

Scope of Accreditation

Dairygold Analytical Services Laboratory

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
751 Food testing - .03 Compositional analysis	SOP 38 Elemental Analysis by ICP-MS	Aluminium Arsenic Boron Calcium Cadmium Chromium Cobalt Copper Iron Lead Manganese Magnesium Molybdenum Nickel Phosphorus Potassium Selenium Sodium Zinc	17-150mg/kg DW 0.040-0.3mg/kg DW 4-50mg/kg DW 400-18000mg/kg DW 0.06-0.15mg/kg DW 0.19-25mg/kg DW 0.06-0.20mg/kg DW 3-10mg/kg DW 30-500mg/kg DW 0.25-1.7mg/kg DW 15-100mg/kg DW 1600-6400mg/kg DW 0.1-15mg/kg DW 0.8-15 mg/kg DW 1400-5140mg/kg DW 4700-47600mg/kg DW 0.060-0.110 mg/kg DW 1030-4000mg/Kg DW 25 - 50mg/Kg DW	Silage/Grass	ICP-MS	SOP 38. In-house developed method
		Arsenic Cadmium	0.4-20mg/kg 0.28-20mg/kg	Mineral/Premix	ICP-MS	SOP 38. In-house developed method

		Cobalt Iron Lead	1-30mg/kg 650-10000mg/kg 1.2 - 20mg/kg			
		Arsenic Cadmium Cobalt Iron Lead Selenium	0.07-10mg/kg 0.045-10mg/kg 0.8-10mg/kg 120-650mg/kg 0.1-10mg/kg 0.2-10mg/kg	Feed	ICP-MS	SOP 38. In-house method based on EN 17053:2018
752 Chemical residue testing - .04 Pesticide residues	SOP 37.3 Chlorate	Chlorate	.002 - 0.2 mg/Kg	Raw Milk, Milk Products, Water	LC-MS-MS	SOP 37.3. In-house developed method
	SOP 37.3. Perchlorate	Perchlorate	0.004 – 0.2 mg/Kg	Raw Milk, Milk Products, Water	LC-MS-MS	SOP 37.3. In-house developed method.
752 Chemical residue testing - .06 Mineral pollutants	SOP 23.7.2 Phosphorus (Inorganic)	Phosphorus (Inorganic)	3 - 30% as P	Other Agricultural Products (Feed supplement)	Spectrophotometric method @ 430nm	SOP 23.7.2
752 Chemical residue testing - .07 Nutrients	Calcium	Calcium	0.03 - 10 %	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
			0.03 - 10 %	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
			0.03 - 10%	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
	Calcium (Inorganic)	Calcium (Inorganic)	0.1 - 55%	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
	Copper	Copper	3 - 5000 mg/kg	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
			3 - 5000 mg/kg	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
			3 - 5000 mg/kg	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
	Magnesium	Magnesium	0.03-10%	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
			0.03-10%	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
	Manganese	Manganese	3-5000 mg/kg	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10

		3-5000 mg/kg	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
Manganese (Inorganic)	Manganese (Inorganic)	5 - 700,000 mg/Kg	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
Potassium	Potassium	0.03 - 10%	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
		0.03 - 10%	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
		0.03 - 10%	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
Sodium	Sodium	0.03 - 10%	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
		0.03 - 10%	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
Zinc	Zinc	3 - 5000 mg/kg	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
		3 - 5000 mg/kg	Stockfoods (animal feedstuffs)	Atomic Absorption Spectroscopy	SOP 23.10
Copper (Inorganic)	Copper (Inorganic)	5 - 300,000 mg/Kg	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
Magnesium	Magnesium	0.03 - 10%	Cereal grains and by - products	Atomic Absorption Spectroscopy	SOP 23.10
Magnesium (Inorganic)	Magnesium (Inorganic)	0.1 - 60%	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
Potassium (Inorganic)	Potassium (Inorganic)	0.1 - 55%	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
Sodium (Inorganic)	Sodium (Inorganic)	0.1 - 50%	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
SOP 10 Dry Matter	Dry Matter	5-70%	Stockfoods (Animal Feedstuffs - Grass and Silage)	Oven Method	SOP 10
SOP 11 Total Solids	Total Solids	50 - 85%	Molasses	Oven method	SOP 11

SOP 13.1 Nitrogen content as nitrogen and calculation of crude protein	Nitrogen	0.1 - 14.0%	Dairy Products	Automated Kjeldahl method	SOP 13.1
SOP 13.1 Nitrogen content as nitrogen and calculation of crude protein	Nitrogen	0.1-14.0%	Herbage	Automated Kjeldahl method	SOP 13.1
SOP 13.1 Nitrogen content as Nitrogen/Calculation of protein	Nitrogen	0.1 - 14.0%	Cereal grains and by - products	Automated Kjeldahl method	SOP 13.1
	Nitrogen	0.1 - 14.0%	Stockfoods (animal feedstuffs)	Automated Kjeldahl method	SOP 13.1
SOP 14.2 Oil	Oil	0.1 - 40%	Cereal grains and by - products	Method A - Soxhlet	SOP 14.4
SOP 14.2 Oil A	Oil A	0.1-40%	Stockfoods (animal feedstuffs)	Method A Soxhlet	SOP 14.4
SOP 15 Crude Fibre	Crude Fibre	0.1 - 40%	Stockfoods (animal feedstuffs)	Gravimetric Method	SOP 15
		0.1% - 40%	Cereal grains and by - products	Gravimetric Method	SOP 15
SOP 16.1 Ash	Ash	0.1 - 99.0 %	Cereal grains and by - products	Combustion 550°C	SOP 16.1
		0.1-99.0%	Herbage	Combustion 550°C	SOP 16.1
		0.1-99.0%	Stockfoods (animal feedstuffs)	Combustion 550°C	SOP 16.1
SOP 16.3 Organic Matter	Organic Matter	0.1 - 99.9%	Soils	Oven Method @ 105°C/combustion @ 500°C	SOP 16.3
SOP 17.2 Screenings	Screenings	0.1 - 60%	Barley and Wheat	Sieving (automatic)	SOP 17.2
SOP 18 Hectolitre	Hectolitre	30 - 88 kg/HL	Cereal grains and by - products	Bulk Density	SOP 18
SOP 20 pH	pH	3-10 pH	Silage	pH meter	SOP 20
SOP 20.2/20.4 pH Soil (Water)	PH Soil (Water)	4 - 10pH	Soils	pH Meter	SOP 20.2/20.4

SOP 20.3/20.5 pH Soil (Buffer)	pH Soil (Buffer)	4 -10pH	Soils	pH Meter	SOP 20.3/20.5
SOP 22 Starch	Starch	0.2 - 75%	Cereal grains and by - products	Polarimetry	SOP 22
		0.2 - 75%	Herbage	Polarimetry	SOP 22
		0.2 - 75%	Stockfoods (animal feedstuffs & ingredients excl. milkpowder products)	Polarimetry	SOP 22
SOP 23.1.3 Magnesium (Soils)	Magnesium (Soils)	10 - 400mg/L	Soils	Atomic Absorption Spectroscopy extracted with Morgans Solution	SOP 23.1.3
SOP 23.7.1 Total Phosphorus	Total Phosphorus	0.2 - 35%	Herbage	Spectrophotometric method @ 430nm	SOP 23.7.1
	Total Phosphorus	0.2 - 35%	Cereal grains and by - products	Spectrophotometric method @ 430 nm	SOP 23.7.1
		0.2 - 35%	Stockfoods (animal feedstuffs)	Spectrophotometric method @ 430 nm	SOP 23.7.1
SOP 23.9 Soil Phosphorus in Morgans Extraction	Phosphorus in Morgans Extraction	1 - 50 mg/L	Soil	Flame photometer/Lachat System	SOP 23.9
SOP 23.9 Soil Potassium in Morgans Extraction	Potassium in Morgans Extraction	20 - 500mg/l	Soil	Flame photometer/Lachat System	SOP 23.9
SOP 9.1 Moisture	Moisture	1 - 20%	Stockfoods (animal feed stuff & ingredients)	Oven Method at 103°C	SOP 9.1
SOP 9.2 Moisture		8 - 40%	Cereal grains and by - products	Oven method at 130°C	SOP 9.2
Total Manganese	Total Manganese	3 - 5000 mg/kg	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
Total Sodium	Total Sodium	0.03 - 10%	Herbage	Atomic Absorption Spectroscopy	SOP 23.10
Total Zinc	Total Zinc	3 - 5000 mg/kg	Herbage	Atomic Absorption Spectroscopy	SOP 23.10

	Zinc (Inorganic)	Zinc (Inorganic)	5 - 750,000 mg/Kg	Other Agricultural Products (Feed supplement)	Atomic Absorption Spectroscopy	SOP 23.10
766 Environmental testing (inc waters) - .01 Metal analysis	SOP 38 Elemental Analysis by ICP-MS	Antimony Aluminium Arsenic Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Molybdenum Nickel Selenium Vanadium Zinc	1-50ug/l 10-50ug/l 1-50ug/l 10-1000ug/l 0.4-50ug/l 1-50ug/l 1-50ug/l 5-2000ug/l 100-1000ug/l 1-50ug/l 1-50ug/l 0.4-10ug/l 1-50ug/l 1-50ug/l 5-50ug/l 1-50ug/l 5-2000ug/l	Waters	ICP-MS	SOP 38. In-house developed method
		Copper (DTPA Extractable) Zinc (DTPA Extractable) Manganese (DTPA Extractable) Iron (DTPA Extractable) Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Mercury Molybdenum	1.2-12mg/Kg DW 5-55mg/Kg DW 10-120mg/Kg DW 85-145mg/Kg DW 12 - 140mg/Kg DW 0.19-150mg/Kg DW 2300-60000mg/kg DW 23-180mg/kg DW 4-170mg/kg DW 7.5-225mg/kg DW 2100-33000mg/kg DW 7-330mg/kg DW 53-1130mg/kg DW 0.066-14mg/kg DW 0.75-200mg/kg DW 11-170mg/kg DW 60-460mg/kg DW	Soils	ICP-MS	SOP 38. In-house developed method

		Nickel Zinc				