

Schedule of Accreditation



Organisation Name	FBA Laboratories Ltd
Trading As	FBA Laboratories Limited
INAB Reg No	257T
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Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	13/04/2010
Scope Classification	Biological and veterinary testing
Scope Classification	Chemical testing
Services available to the public ¹	

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	Carrigeen Industrial Estate, Cappoquin, Waterford, P51 RW14

Scope of Accreditation

Head Office

Biological and Veterinary Testing

Category: A

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference
804 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .03 Enzyme immunoassay,	Determination of BVD Antigen in Ear Notch Samples by ELISA	ELISA	Ear Notch	Absorbance Reader	Based on IDEXX Bovine Viral Diarrhoea Virus (BVDV) Antigen Test Kit/Serum Plus. In-house method ref.: CM08.
	Determination of BVD Antigen in Individual Ear Notch Samples by IDEXX ELISA using DSX Automated System		Ear Notch	DSX Automated System	Based on IDEXX Bovine Viral Diarrhoea Virus (BVDV) Antigen Test Kit/Serum Plus. In-house method ref.: CM15.
	Determination of BVD Antigen in Serum by ELISA		Serum	Absorbance Reader	Based on IDEXX Bovine Viral Diarrhoea Virus (BVDV) Antigen Test Kit/Serum Plus. In-house method ref.: CM09.
805 Detection and/or identification of bacterial, parasite, fungal and viral nucleic acids using appropriate techniques - .03 Nucleic acid amplification tests, CE marked commercial systems	Determination of BVD Antigen in Individual and Pooled Ear Notch by RT-PCR using Indical kit	PCR	Ear Notch	Real Time PCR Instrument	Based on Indical Virotype BVDV RT-PCR Kit. In-house method ref.: CM13.
808 Detection of antibody response to infection using appropriate techniques - .02 Enzyme immunoassay, using CE marked commercial systems	Determination of MAP Antibodies in Individual Milk Samples by ID VET ELISA	ELISA	Milk	Absorbance Reader	Based on ID.vet ELISA Kit: ID Screen Paratuberculosis Indirect Screening Test. In-house method ref.: CM17.

	Determination of MAP Antibodies in Individual Serum Samples by ID VET ELISA		Serum	Absorbance Reader	Based on ID.vet ELISA Kit: ID Screen Paratuberculosis Indirect Screening Test. In-house method ref.: CM16.
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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	Determination of fat in milk	Fat	0.1-48 %	Cream, milk, milk powder	Röse-Gottlieb principle and gravimetry	ISO 23318:2022 / IDF 249:2022 / CM48
	Determination of Nitrates and Nitrites in Dry Milk Products	Nitrate	0.7 to 16.0 mg/kg	Dry Milk Products	Flow Injection Analysis (FIA): Lachat QuikChem 8500 Series 2 FIA Analyser using cadmium reduction	ISO 14673-3:2004 / IDF 189-3:2004 / CM38
		Nitrite	3.3 to 200.0 mg/kg	Dry Milk Products	Flow Injection Analysis (FIA): Lachat QuikChem 8500 Series 2 FIA Analyser using cadmium reduction	ISO 14673-3:2004 / IDF 189-3:2004 / CM38
751 Food testing - .03 Compositional analysis	Determination of Fat-soluble Vitamins in dry milk	Vitamin A	6-14 mg/kg	Milk Powder	HPLC-DAD	In-house CM53
		Vitamin D3	0.03-0.10 mg/kg	Milk Powder	UHPLC-MS/MS	In-house CM53
	Determination of Lactose by IC-PAD	Lactose	0.003 to 100g/100g	Milk Powder	IC-PAD. Ion Chromatography with Pulsed Amperometric Detection	Based on Metrohm Application Note AN-P-089
			0.006 to 0.2g/100g	Milk	IC-PAD. Ion Chromatography with Pulsed Amperometric Detection	Based on Metrohm Application Note AN-P-089. In-house method ref.: CM33
751 Food testing - .04 Adulteration	Determination of Melamine and Cyanuric Acid in Milk Powder	Cyanuric Acid	0.2-10 mg/kg	Milk Powder	UHPLC-MS/MS	In-house CM37

		Melamine	0.1-5.0 mg/kg	Milk Powder	UHPLC-MS/MS	In-house CM37
751 Food testing - .05 Speciation	Determination of Undenatured Whey Protein Nitrogen Index	Undenatured Whey Protein Nitrogen Index	0.41 to 8.12 mg/g	Skimmed Milk Powder	Spectrophotometry: Hach DR 6000 Spectrophotometer	In-house Ref. CM49
			1.5-6 mg/g	Milk powder (full-fat)	Spectrophotometry	Based on ADPI Bulletin 916 / CM49
752 Chemical residue testing - .02 Elements	Determination of elements in milk powder	Calcium	1886 to 33333 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
		Copper	1.27 to 66.6 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
		Molybdenum	1.16 to 16.66 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
		Phosphorus	1918 to 66666 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
		Potassium	2637 to 66666 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
		Selenium	0.09 to 3.33 mg/kg	Milk powder	ICP-MS: Perkin Elmer NexION 2000	In-house reference CM51
	Determination of total Iodine in Dairy Products	Iodine	0.025 to 10.0 mg/kg	Milk	ICP-MS: Agilent 7700	ISO 20647:2015 / IDF 234:2015 (In-house Ref. CM50)
			0.0375 to 15.0 mg/kg	Milk Powder	ICP-MS: Agilent 7700	ISO 20647:2015 / IDF 234:2015 (In-house Ref. CM50)
752 Chemical residue testing - .03 Mycotoxins	Determination of Aflatoxin M1 in milk	Aflatoxin M1	0-1 ug/kg	Milk, Milk Powder	UHPLC-MS/MS	In-house CM52
752 Chemical residue testing - .04 Pesticide residues	Determination of Chlorate and Perchlorate in Dairy Products by UHPLC-MS/MS	Chlorate and Perchlorate	2.0 to 400.0 µg/kg for both analytes	Milk	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In-house method ref.: CM29.
			20.0 to 4000.0 µg/kg for both analytes	Milk powder and skimmed milk powder	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In-house method ref.: CM29.

		5 to 400.0 µg/kg for both analytes	Skimmed milk concentrate	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In-house method ref.: CM29.
	Determination of Chlorate and Perchlorate in Water by UHPLC-MS/MS	2.0 to 1000.0 µg/l for both analytes	Potable water	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In-house method ref.: CM30.
	Determination of NOP's, Naturally Occurring Prohibited Substances, in feed samples by UHPLC/MS/MS	Atropine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Bufotenine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Caffeine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		DMT (Dimethyltryptamine)	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Hordenine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Hyoscine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Lupinine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Morphine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
		Theobromine	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.

		Theophylline	5 to 200 µg/kg	Feed	UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM31.
Screening of NOPS in Feeds and Feed raw materials by UHPLC-MS/MS		Atropine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Bufotenine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Caffeine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Hordenine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Hyoscine/Scopolamine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Lupinine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36

		Morphine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		N N-DMT	≥50ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS	Based on Method Developed by Cordoba University in Spain for the analysis of NOPS in Feed samples. In house reference CM36
		Theobromine	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
		Theophylline	≥50 ng/g	Animal Feed (products and raw ingredients)	Liquid Chromatography and Mass Spectrometry using UHPLC-MS/MS: Perkin Elmer Qsight 420 MS	In house method ref.: CM36
752 Chemical residue testing - .05 Organic contaminants	Determination of Benzo(a)pyrene in milk products	Benzo(a)pyrene	0.32 to 75 µg/kg for cream	Cream	HPLC-FLD: Perkin Elmer HPLC LC300	In-house Ref. CM47
	Determination of Benzo(α)pyrene in milk products	Benzo(α)pyrene	0.11 to 37.5 µg/kg	Milk Powder	HPLC-FLD: Perkin Elmer HPLC LC300	In-house Ref. CM47
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	Determination of Biochemical Oxygen Demand in water	Biochemical Oxygen Demand	0.1-395 mg/L	Waters for potable and domestic use, Ground Water, Surface Water, Wastewater	5-Day BOD Test	APHA Standard Methods 24th edition (2023): 5210B / CM42
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Determination of Chemical Oxygen Demand (COD)	Chemical Oxygen Demand	3 to 4500 mg/L O ₂	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	HACH DR6000 UV-Vis Spectrophotometer & HACH DRB200 Reactor Block	HACH Method 8000: USEPA Reactor Digestion Method / In-house method ref.: CM21

766 Environmental testing (inc waters) - .04 Organic	Determination of Fats, Oils & Greases in Water	n-Hexane Extractable Material and Silica Gel Treated n-Hexane Extractable Material	5 to 500 mg/L	Waters for potable and domestic use, Ground Water, Surface Water, Wastewater	Extraction and Gravimetry: Solid phase extraction using Enviro-Clean Universal Oil & Grease cartridges XF 2000mg/83mL	EPA Method 1664 Rev.B (In-house Ref. CM44)
	Determination of Total Carbon, Total Organic Carbon and Total Nitrogen in soil and sludge through combustion at 1200oC	Total Carbon	0.01-60 %	Soil	Dry combustion and infrared spectrometry	In-house CM57 / EN15936:2022 method A
		Total Nitrogen	0.007-35 %	Soil	Dry combustion and infrared spectrometry	In-house CM57
		Total Organic Carbon	0-60 %	Soil	Calculation	In-house CM57 / EN15936:2022 method A
	Determination of Total Carbon, Total Organic Carbon and Total Nitrogen in soil	C:N ratio	0.001 to 8571.43	Soil	Calculation	In-house reference CM57
	Determination of Total Inorganic Carbon in soil and sludge through acidification and sparging at 150oC	Total Inorganic Carbon	0.003-12 %	Soil	Acidification & sparging and infrared spectrometry	In-house CM54 / EN15936:2022 method A
	Determination of Total Kjeldahl Nitrogen	Nitrogen	0.4-450 mg/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Calculation	In-house CM45
766 Environmental testing (inc waters) - .05 Inorganic	Determination of Ammonia Nitrogen in Water	Ammonia	0.033-25 mg N/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Seal AQ400 Discrete Analyser	USEPA Method 350.1 Rev 2.0, APHA Standard Methods 24th Edition (2023): 4500-NH3 H, 4500-NH3 G / CM43
	Determination of Chloride in Water	Chloride	0-5000 mg/L	Waters for potable and domestic	Seal AQ400 Discrete Analyser	ISO 15923-1:2013 / CM46

				purposes, Ground Water, Surface Water, Wastewater		
	Determination of Ortho-phosphate in Water	Ortho-phosphate	0.006-25.0 mg P/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Seal AQ400 Discrete Analyser	USEPA Method 365.1 Rev 2.0, APHA Standard Methods 24th Edition (2023): 4500-P F / CM39
	Determination of Phosphorus & Potassium in Morgan's Extracts of Soil, by Segmented Flow Injection Analysis	Phosphorus and Potassium	1.5 to 30mg/l as P in soil 28 to 500mg/l as K in soil	Soil	Flow Injection Analysis (FIA): SEAL Analytical AA500 Segmented Flow Injection Analyser	In-house reference CM32
	Determination of Total Nitrogen in Water	Total Nitrogen	0.5 to 450.0 mg/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Spectrometric method: HACH Ganimedede N Analysis Unit	Based on ISO 11905-1, In-house method ref.: CM35
	Determination of Total Oxidized Nitrogen in Water	Total Oxidized Nitrogen (Nitrate + Nitrite)	0.1-180 mg N/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Seal AQ400 Discrete Analyser	ISO 15923-1:2013 / CM40
	Determination of Total Phosphorus in Water	Total Phosphorus	0.011 to 40.0 mg/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Spectrometric method: HACH Ganimedede P Analysis Unit	Based on ISO 6878:2004, In-house method ref.: CM34
767 Physical test/measurement - .01 pH	Determination of pH in Water	pH	pH units 4-10	Waters for potable and domestic use Ground Water Surface Water Wastewater	Electrometric determination: HACH HQ440d Multi-Parameter Meter with HACH pH101 pH probe	Based on APHA 2023: 4500-H+B. In-house method ref.: CM20
	pH of Soil in Water & SMP Buffer (for lime requirement)	Water pH of Soil & Buffer pH of Soil	pH 4-7 in aqueous suspension pH 4-7 in acetate buffer (SMP) suspension.	Soil	Electrometric determination: SEAL Analytical pH meter – ML V3 250L 4pH-soil	In-house method ref.: CM01/CM02

767 Physical test/measurement - .03 Suspended Solids	Determination of Total Suspended Solids using Gravimetric Method	Total Suspended Solids	0-500 mg/L	Waters for potable and domestic purposes, Ground Water, Surface Water, Wastewater	Gravimetric Method	APHA Standard Methods 24th Edition (2023): 2540 D / CM41
797 Miscellaneous materials and products - .02 Physical tests	Determination of Organic Matter in Soil	Organic Matter	0.7-100%	Soil	Manual: Oven drying, gravimetry and combustion using Carbolite CWF 12/23 Chamber furnace. Automated: Oven drying, gravimetry using Skalar SP2000 Automated Weighing Robot, and combustion using Nabertherm NA 120/65 Chamber Furnace.	Based on requirements of Statutory Instrument No. 605 of 2017 (Schedule 1). In-house method: CM05.