

Schedule of Accreditation



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| Organisation Name | FBA Laboratories Ltd |
| Trading As | FBA Laboratories Limited |
| INAB Reg No | 257T |
| Contact Name | Karen Kenny |
| Address | Carrigeen Industrial Estate, Cappoquin, Waterford, P51 RW14 |
| Contact Phone No | 058 52861 |
| Email | qualitymanager@fba-labs.com |
| Website | http://www.fba-labs.com |
| 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 public¹

¹ Refer to document on interpreting INAB Scopes of Accreditation

| Sites from which accredited services are delivered | | |
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| (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 |
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| 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 |

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| | | | | | 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 |
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| 751 Food testing - .02 Nutritional analysis | 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 |

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| 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 |
| | | Sodium | 663 to 33333 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. |

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| Determination of NOP's, Naturally Occurring Prohibited Substances, in feed samples by UHPLC/MS/MS | Atropine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Bufotenine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Caffeine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | DMT (Dimethyltryptamine) | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Hordenine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Hyoscine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Lupinine | 50 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Morphine | 5 to 200 µg/kg | Feed | UHPLC-MS/MS: Perkin Elmer Qsight 420 MS | In house method ref.: CM31. |
| | Theobromine | 50 to 200 µg/kg | 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 |

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| | | | 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 |

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| | | | | | | 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) - .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 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 |

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| | 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 purposes, Ground Water, Surface Water, Wastewater | Seal AQ400 Discrete Analyser | ISO 15923-1:2013 / CM46 |
| | 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 Ganimed 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 | Seal AQ400 Discrete Analyser | ISO 15923-1:2013 / CM40 |

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| | | | | Water, Surface Water, Wastewater | | |
| | 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 Ganimed 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 pHC101 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 |
| 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. |