



- Established in 2012, **AGRIVET RESEARCH AND ADVISORY PRIVATE LIMITED** is a leading Research and Advisory service provider in livestock business of South Asia. During past **10 years**, **AGRIVET** has provided comprehensive solution for Livestock Advisory and Research Services by validating Nutritional Products, Additives, Supplements, Drugs, Vaccines etc. to the Indian and global clients.
- AGRIVET** is the only privately held organization exclusively engaged in high-end Molecular and Biotechnological exploration in Veterinary Medicine and Animal Nutrition. With its well-equipped laboratory set-up and highly qualified, skilled and dedicated laboratory workforce managing the R&D division, **AGRIVET** delivers wide array of technical services to the clients. The services span from traditional microbiological, serological and biochemical techniques to cutting edge metagenomics and transcriptomics.
- The mission of **AGRIVET** is to provide highest intensity of customer satisfaction by deploying state-of-the-art modern equipments and technical skills in Livestock Industry.

NUTRITIONAL PROFILING



Nutritional Chemical Profiling of all Feeds and Raw Materials using NIRS and Conventional Wet Chemistry Techniques

- Proximate analysis • Digestible Amino Acids • Calcium and Total Phosphorus
- Analysis of Peroxide Value, Rancidity and Free Fatty Acid of Oil • PSI / KOH Solubility • Urease Activity • NPN • Pepsin Digestibility • TVBN • Water pH, TDS and Hardness • Adulteration in Raw Materials



MICROBIOLOGY



Microbiological Diagnosis using Conventional Laboratory Techniques

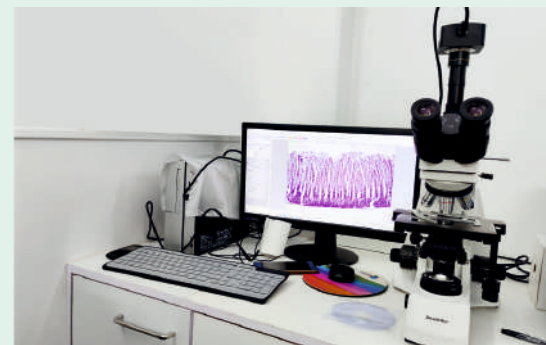
- Microbial Identification:** *Salmonella* sp. | *Escherichia coli* | *Clostridium* sp. | Total Coliforms | Total Bacterial Count | Total Mold Count | Enterobacteriaceae • Antibiotic Sensitivity Test • Complete feed Hygiene
- Water microbiology **Rapid Plate Test:** *M. gallisepticum* | *M. synoviae* | *Salmonella pullorum* • Farm Hygiene Management package • Hatchery Hygiene Management package • Feed Mill Hygiene Management package.

BIOCHEMISTRY



All Blood and Serum biochemical profiles and parameters using Automated Blood Biochemistry Analyzer.

- Liver function test • Kidney function test • Lipid Profile • Glucose • Alkaline Phosphatase
- Calcium • Phosphorus • Gamma Glutamyl Transferase • Arterial Blood Gas (ABG) Analyses: pH, pCO₂, pO₂, Na⁺, K⁺, Ca⁺, Cl⁻, Lactate, Hb, SO₂, Actual bicarbonate (HCO₃⁻), Hematocrit (Hct) etc.



SEROLOGY/ IMMUNOLOGY



Wide range of serological assays for the detection of various infectious agents from the blood/serum of Livestock using ELISA Techniques:

- Infectious Bursal Disease ● Newcastle Disease ● Infectious Bronchitis
- *Mycoplasma gallisepticum* & *Mycoplasma synoviae* ● Avian Encephalomyelitis
- Avian Leucosis Complex ● Avian Pneumo Virus ● Chicken Infectious Anaemia Virus ● Egg Drop Syndrome ● Adeno Virus (Inclusion Body Hepatitis - IBH) ● Canine, Feline, Ruminant, Swine and Equine tests (needs prior confirmation from the laboratory)



RT-PCR MOLECULAR BIOLOGY



Cutting-edge Molecular Biology Research spanning Genomics & Metagenomics, their application in Molecular *In-Vitro* Diagnosis, Metabolomics & Transcriptomic analysis of various genes & pathways.

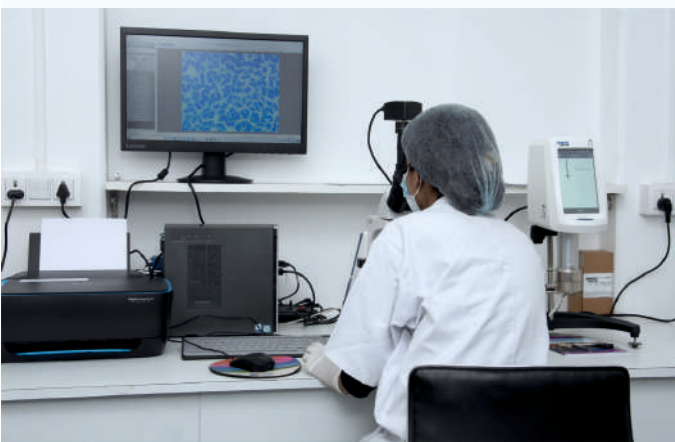
- Molecular detection of Bacterial & Viral disease from Tissue/Swab/FTA card
- **Genomic DNA isolation:** Plant, Animal, Microbes, Soil and Blood to amplicon up to 2kb
- **Gene expression compiled report:** RNA isolation, QC, cDNA preparation and Gene Expression analysis using SYBR™ green qRT-PCR / TaqMan™ qRT-PCR
- GMO testing by using CMV35S/ CRY/ NOS sequence on RT-PCR as required
- Microbiome metagenomics study from gut/faeces using 16s rRNA gene sequencing-V3-V4 / whole genome shotgun metagenomics study
- Bacterial molecular identification using 16S primer
- Fungi molecular identification using ITS primer or 28S primer



BIOTECHNOLOGY



- Mycotoxins detection from Raw Materials & Feed using modern high-end precision instruments - Lateral Flow Immunochromatographic Assay technique.
 - **Basic Toxin Profile** (Aflatoxin, Ochratoxin, T2, Fumonisin)
 - **Advanced Toxin Profile** (Aflatoxin, Ochratoxin, T2, Fumonisin, Zearalenone, DON)
 - Individual Toxin Analysis
- **Egg Quality Testing** using Automatic Egg Analyzer that uses cutting edge technology to measure egg's weight, albumen height, yolk colour and Haugh Unit in few seconds
- **Measurement of Intestinal Viscosity** using high-end digital viscometer to check the effect of supplements on digestibility of nutrients in poultry birds.



PATHOLOGY & PARASITOLOGY

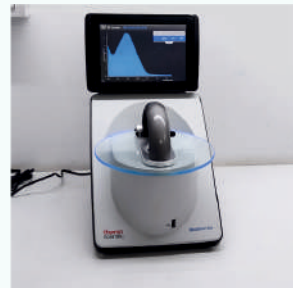


- **Histomorphometry and Histopathology** study of tissues and internal organs
- Coccidia oocyst count from Faecal Samples
- Post-mortem examination of poultry birds

FEED TECHNOLOGY



- Pellet Durability Index ● Pellet Hardness ● Residual Fine and Texture Profiling
- Pellet Dissociation using mechanical process Validating mixing uniformity
- **Mixing Uniformity Analysis (CV)**, Ingredients Tracking and Cross-contamination Control using Magnetically Retrievable Rotary Detector



AGRIVET RESEARCH & ADVISORY PRIVATE LIMITED

+91 33 4005 0857 | 58
info@agrivet.in | www.agrivet.in

Corporate Office: 714, Lake Town, Block-A, Kolkata - 700 089, West Bengal
Research Laboratory: 60, Rishi Arabinda Sarani, Baranagar, Kolkata - 700 090, West Bengal
Research Center 1 & Laboratories: Jhampa, Kaliani, Deganga, 24 Parganas (N), WB - 743 423
Research Center 2: Dakatpota, Golabari, Barasat, 24 Parganas (N), West Bengal - 743 423