



- 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 **12 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 • Amino Acid Profile • 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

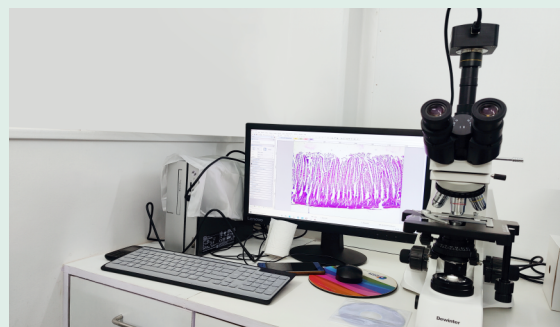
- Microbial Identification: *Salmonella* sp. | *Escherichia coli* | *Clostridium* sp. | Total Coliforms | Total Bacterial Count | Total Mold Count | Enterobacteriaceae
- Antibiotic Sensitivity Test • Complete feed Hygiene • Water microbiology
- Farm Hygiene Management package • Hatchery Hygiene Management package
- Feed Mill Hygiene Management package • Bacteriophage efficacy test

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⁺, Ca²⁺, Cl⁻, Lactate, Hb, SO₂, Actual bicarbonate (HCO₃⁻), Hematocrit (Hct) etc.



+91 90079 81090
centrallaboratory@agrivet.in



**DSIR Recognized
In-house R&D unit**



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
- **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 • Diva PCR

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

