



- 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

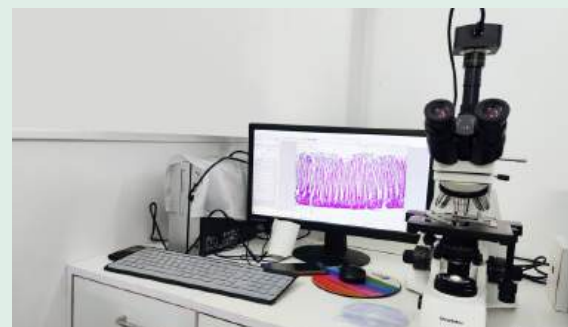
- **Microbial Identification:** *Salmonella* sp. | *Escherichia coli* | *Clostridium* sp. | Total Coliforms | Total Bacterial Count | Total Mold Count | Enterobacteriaceae
- Antibiotic Sensitivity Test ● Complete feed Hygiene ● Water microbiology
- Farm Hygiene Management package ● Hatchery Hygiene Management 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, pCO<sub>2</sub>, pO<sub>2</sub>, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, Cl<sup>-</sup>, Lactate, Hb, SO<sub>2</sub>, Actual bicarbonate (HCO<sub>3</sub><sup>-</sup>), Hematocrit (Hct) etc.



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**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 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

