

Molecular Diagnosis of Common Poultry Diseases

Infectious diseases of poultry are mostly contagious and have a devastating effect on performance which leads to huge economic losses every year.

Timely detection of these diseases is crucial for their early control and preventing them from spreading to the whole population.

Disease diagnosis by molecular techniques are more accurate, fast and helps to take early precaution.

AGRIVET OFFERS FOLLOWING DISEASE DIAGNOSIS USING MOLECULAR TECHNIQUES

Detection of viral diseases by Regular PCR / Real Time PCR

RESPIRATORY DISEASE

- ◆ New castle disease / Ranikhet disease (ND)
- ◆ Infectious bronchitis disease (IB)
- ◆ Avian influenza (AI)
- ◆ Infectious laryngo-trachitis (ILT)
- ◆ Avian Meta pneumo virus (AMPV)

IMMUNO-SUPPRESSIVE DISEASE

- ◆ Infectious bursal disease
- ◆ Chicken infectious anemia
- ◆ Inclusion body hepatitis (IBH)

MALABSORPTION DISEASE

- ◆ Avian Reo virus

TUMOUR FORMING DISEASE

- ◆ Marek's disease
- ◆ Avian leukosis



For Further Queries

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OTHER VIRAL DISEASE

- ◆ Avian nephritis virus
- ◆ Avian Astro virus
- ◆ Ortho bunya virus
- ◆ Avian encephalomyelitis virus
- ◆ Avian pox

DETECTION OF BACTERIA BY REGULAR PCR / REAL TIME PCR

- ◆ *Mycoplasma gallisepticum*
- ◆ *Mycoplasma synoviae*
- ◆ Infectious Coryza
- ◆ Fowl Cholera
- ◆ *Staphylococcus sp.*
- ◆ *Ornithobacterium*
- ◆ *Salmonella sp.*
- ◆ Avian Pathogenic *E. coli*
- ◆ *Clostridium sp.*

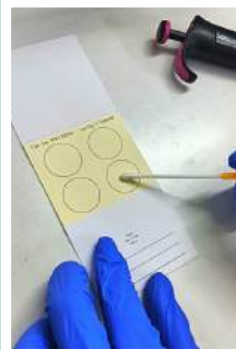
Sample transportation

- ◆ Impression smear from affected organs of fresh dead bird / sick birds in **FTA card**
- ◆ Tissue, Swab or other biological samples from live/ dead Birds

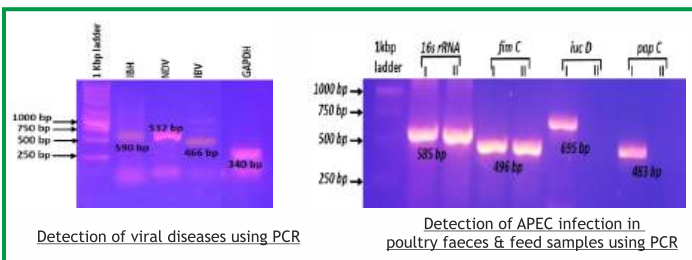
Agrivet also offers “**Nucleotide Sequencing**” through Sanger Sequencing method and Phylogenic Tree analysis for identification of Viral / Bacterial sub-type.

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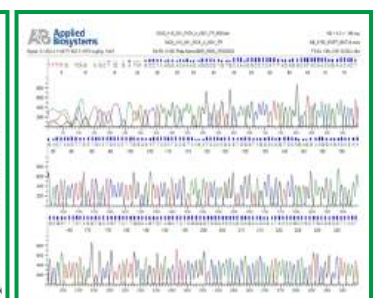
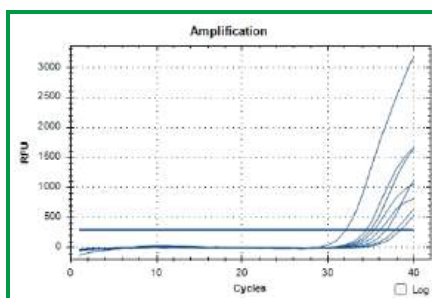
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Disease detection through PCR techniques



| SAMPLE | IBV- Massachusetts (Ct value) | IBV-4/91 (Ct value) | IBV-D274 (Ct value) | ILT (Ct value) | ND VARIANT (Ct value) | Viral GAPDH (Ct value) |
|---------------|-------------------------------|---------------------|---------------------|----------------|-----------------------|------------------------|
| Pooled sample | 36.09 | 34.99 | 35.39 | 38.17 | 35.58 | 32.09 |



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Advisory | Research | Laboratory | School | Life Sciences

Detection of viral diseases using real time PCR

Sequencing of PCR products to identify new strains