



## Unique solution for Newcastle Challenges.....

Newcastle disease virus is an enveloped, nonsegmented single stranded negative sense RNA virus. It belongs to genus Avulavirus & Family Paramyxoviridae. NDV are phylogenically separated into two classes I & II are further classified into different Genotypes (Genotype XIIIb virus within class II are major genotype of virus that are circulating in different countries including India). The NDV strain based on cleavage site of fusion (F) gene which works as a virulence-determining gene can be grouped as highly (Velogenic), moderately (Mesogenic), weakly pathogenic (Lentogenic) pathotypes.

Of late, more number of New castle disease outbreaks has been recorded in India with mortality range from 30 to 100%. Mostly in commercial Broiler & layer birds with Nervous & Visceral symptoms like Torticollis, Proventricular haemorrhages, Button ulcers in intestine & caecal tonsil haemorrhages. Even after good vaccination against ND (both inactivated & live G2), there is some outbreak in commercial broiler & layer with higher mortality. The symptoms are detected similar to virulent strain like GENOTYPE XIIIb viruses. This outbreak questions the efficacy of commercial vaccines to field viruses. The reason suspected for this may be the **mismatch of genotypes between circulating strains i.e Genotypes XIIIb strains & strains of viruses used for vaccines i.e G2.**

To overcome such incidences Globion introduced "Globivac ND UNIQUE" (TANUVAS ND D58 strain). Globivac ND UNIQUE is a live vaccine for control of Newcastle Diseases. The vaccine is presented as Lyophilised powder containing a live lentogenic non pathogenic strain.

### A FIVE POINT WINNING MANTRA

- Provide protection against ND genotype XIIIb.
- Naturally occurring lentogenic strain of Indian origin with Very low ICPI (0.14)
- Enterotropic i.e minimal respiratory reactions
- Thermostable clone- Stable at 45°C for 1 hours
- Amino acid Sequence of FPCS\* (109-119)109..G....L.119

\*Absence of multiple basic amino acid between 113-117 position indicates low virulence



Selling  
**60 million**  
doses/month

High  
antigenic  
concentration  
per dose

High  
Immunogenicity