



“Bridging Immunity,  
Building Resilience”

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# VAKSIMUNE IB NV-1

Protection Against  
Variant Infectious Bronchitis  
(793/B Serotype)



# VAKSIMUNE® IB NV-1

## Challenges & Our Commitment:

The 793/B serotype of infectious bronchitis virus (IBV) is crucial in poultry due to its association with severe respiratory and nephropathogenic diseases. This strain causes significant respiratory distress, leading to high morbidity and mortality, especially in young birds. It often evades detection in unvaccinated flocks, highlighting the need for targeted vaccines (Hosseini Aliabad et al., 2013).

Additionally, it causes nephritis, leading to kidney damage and increased mortality, stressing the importance of vaccines that specifically target this strain (Pourbakhsh et al., 2007). The 793/B serotype, also known as GI-13, has broad protective capabilities against various IBV strains, making it a critical component in effective vaccination programs (Kutle et al., 2020).

### Features:

VAKSIMUNE® IB NV-1 is a freeze dried live vaccine virus, each dose contains:

**IB BVN 004 (793/B Serotype) virus > 10<sup>2.5</sup> EID<sub>50</sub>**

VAKSIMUNE® IB NV-1 (BVN 004) strain has been specifically engineered to provide protection against a variety of IB challenges in broiler, breeder, and layer chickens. This includes safeguarding against mortality associated with nephropathic & respiration challenges in chicken.



### Vaccination Strategy:

Broiler :Day One  
Breeder/Layer : Day one, booster at 5-8 weeks

### Vaccine Administration:

Vaccine can be administered via different routes of eye drop and spray

### Packing size:

Available in 1000 & 2000 Doses

## VAKSIMUNE® IB NV-1 Benefits



### Protection against Nephropathic lesion

VAKSIMUNE® IB NV-1 protect chicken against renal damage, which are common on IB Variant challenge, especially in broiler chickens.



### Comprehensive Protection

VAKSIMUNE® IB NV-1 offers broad protective coverage against the 793/B serotype as well as other related IBV strains, significantly reducing the risk of both respiratory and nephropathogenic diseases in poultry flocks.



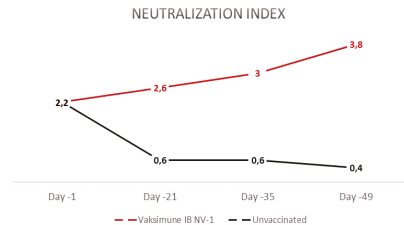
### Avoid Respiratory Distress

VAKSIMUNE® IB NV-1 preventing the severe respiratory symptoms associated with the 793/B serotype, the vaccine ensures healthier flocks avoiding respiratory symptoms.

## Efficacy

VAKSIMUNE IB NV-1 has been evaluated through multiple challenge tests to determine its effectiveness, both on its own and when used with the Massachusetts vaccine, in protecting against different IBV serotypes.

Vaccination program :	Challenge strain
VAKSIMUNE IB NV-1 + IB Mass	
Protect against	793 B
Protect against	Mass
Protect against	QX
Protect against	Q1



### High Neutralization Index Result After Vaccination

The Neutralization Index (NI) gauges a vaccine's effectiveness by showing how well it neutralizes the infectious bronchitis virus (IBV), with higher values indicating stronger immunity. An NI of 2.0 or above is considered protective. The results showed that the vaccinated group of chickens showed an increase in the value of NI from 2.2 at 1 days of age to 3 at 35 days and 3.8 at 49 days of age, with a significant increase at 49 days old.