

MyVAC K811

NEWCASTLE DISEASE VACCINE

INACTIVATED OIL ADJUVANTED MONOVALENT VACCINE

- ▶ The quality vaccines for excellent protection against Newcastle disease.



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Newcastle Disease, the treat to poultry industry.

Newcastle disease is a highly contagious disease in poultry caused by a Paramyxovirus. This devastating viral disease causes high mortality in young or adult birds. Reduction in egg production, early embryonic death, and deterioration of egg shell quality are some of the symptoms observed in breeder and layer birds. The pathogenicity of the virulent field ND virus varies from region to region. The very virulent viruses (vvND) are present in Far East, Middle East, Mexico, Central and South American countries. Most of the Asian countries are ND endemic area. Due to this threat which is always present, the need for better vaccination methods have been sought.

Early protection, day old vaccination

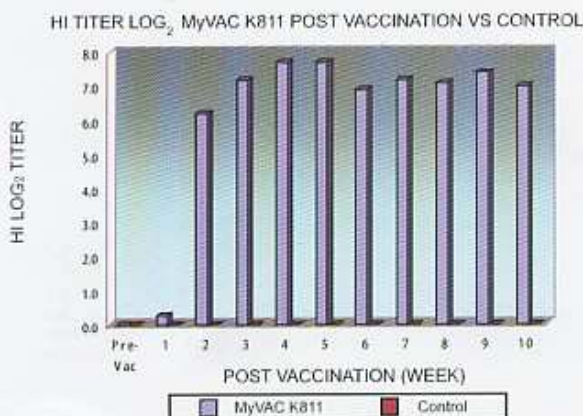
Day old ND live vaccination gives varying results, which is mostly due to the varying degrees of maternal immunity that interferes with production of active systemic immunity. On the other hand, live ND vaccination is necessary to stimulates local immunity in the mucosal lining of the respiratory tract, however this immunity is very short lived.

Research and field trials prove that the chicks vaccinated with inactivated vaccine develop systemic immunity that will last longer, up to 7 - 8 weeks. Broiler farms now practice inactivated ND vaccination at day old, in order to obtain sufficient, long lasting levels of active systemic immunity.

The reliable vaccine

MyVAC K811 is an inactivated oil adjuvanted ND Lasota vaccine that gives very good protection. This vaccine significantly induces high active immunity even though without priming vaccination compared with unvaccinated control. MyVAC K811 induce optimum immune response up to $\text{Log}_2 6$ within 2 weeks post vaccination and maintains high titer for more than 8 weeks with single dose (0.5ml). Please refer to chart 1).

Chart 1: Comparison on the ND HI titer of SPF birds vaccinated with MyVAC K 811 and control group.



The Efficacy and Potency test

Challenge test is a good and reliable tests to see the efficacy of any vaccine. Similarly MyVAC K 811 give good result in the challenge test conducted at Veterinary Research Institute (VRI).

Table 1: ND challenge test result, MyVAC K 811 vaccinated SPF birds with prime and without prime with live ND Lasota.

GROUP	VACCINATION PROGRAM	POST VACC. OBSERVATION	CHALLENGE RESULTS	
			NCL DEAD	PROTECTION
A	Primed : 2 weeks Live ND Lasota Booster : 4 weeks MyVAC K811	No adverse reaction	0 / 20	100%
B	MyVAC K811 at 4 weeks	No adverse reaction	0 / 20	100%
C	Unvaccinated control	-	10 / 10	0%

From the challenge result above, it can be concluded that MyVAC K811 is a **safe, highly immunogenic** vaccine for fast immunity induction and **long lasting high protection titer** against virulent ND challenge in the field.

Recommended vaccination program

MyVAC K811 is safe for all age birds. For birds of above 2 weeks old vaccinate 0.5ml intramuscularly or subcutaneously at the neck region. For younger birds, please consult your veterinarian.



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Quality vaccine for reliable protection