

ValleyVac® ND^{G7}

Art Of Whole Protection Against ND GVII



High Protection



Provides High level of protection through massive concentration per dose

Good Farm Epidemiology



Fast shedding control to guarantee farm good epidemiology

Whole Protection



The only inactivated ND vaccine provides Whole Protection Against ND GVII (Clinical signs, mortality and shedding) due to manufacturing from whole ND GVII virus

Dose
0.5 ml/ Bird

Package
Supplied cold in plastic bottle containing 500 ml sufficient for 1000 doses to be injected.

Storage
ValleyVac® ND^{G7} should be storage at 2-8c for 24 months

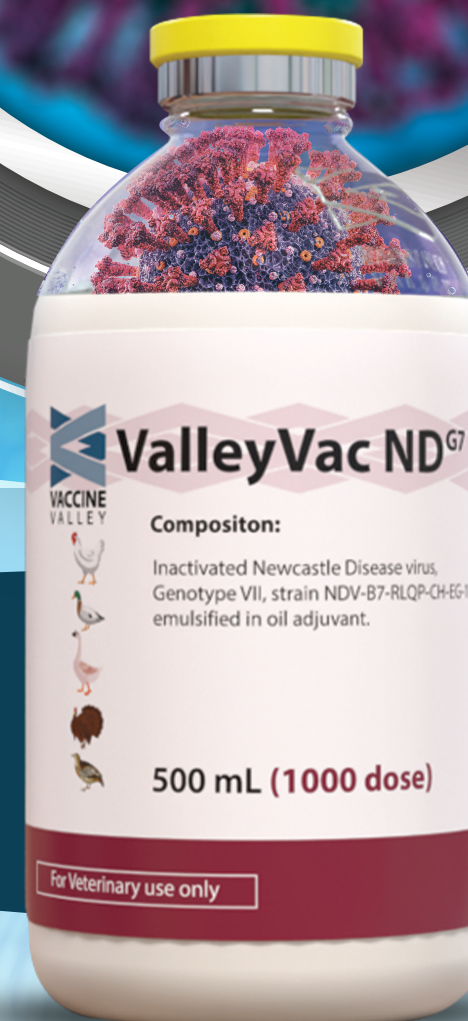
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6th of October city, Egypt.

VACCINE
VALLEY



Whole Protection

The only vaccine manufactured from ND GVII Whole virus

High Protection

Massive Antigenic Mass/ Dose

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#ValleyVac® ND^{G7}

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Unique inactivated vaccine was innovated from Whole Virus of ND genotype VII, in addition to Whole Virus of ND GII (LASOTA Strain) for achievement highest percentage of protection and fastest shedding control against ND GVII.



Immunogenicity and concentration

ValleyVac® ND^{G7} was innovated for development of high and whole protection against ND GVII and GII through

Massive Concentration of 2 Whole Viruses

Strain	EID 50
NDV GVII Whole Virus	> 10 ^{8.5}
NDV GII LASOTA Whole Virus	> 10 ⁹

Rapid and prolonged Immune stimulation

Through unique adjuvant "Montanide™ ISA 71" supplied by SEPPIC company, for induction of rapid cellular and humoral immunity to be suitable for early challenge in broiler flocks, in addition to prolonged immune response for long life layer and breeder hens.

Assessment of protection

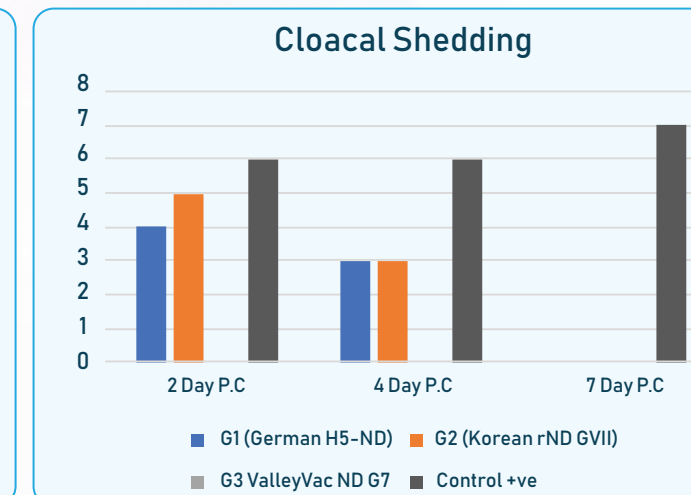
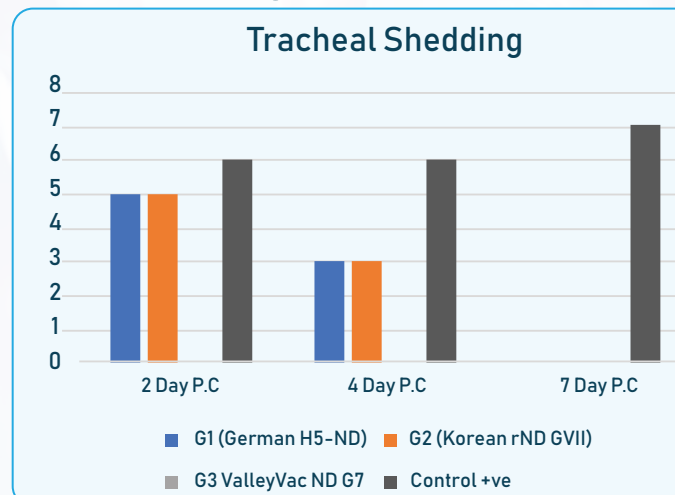
Assessment of protection	G1	G2	G3	G4
	H5-ND Lasota (German vaccine)	NDV GVII (Korean vaccine)	ValleyVac® ND ^{G7}	Control +ve
Type of birds	Commercial Broiler			
Number of birds	35	35	35	35
Vaccines used	● Bivalent vaccine H5-ND (Lasota strain)	● ND GVII (RG inactivated recombinant on lasota backbone)	● ValleyVac® ND ^{G7}	Non vaccinated
Time of vaccination and vaccination program	● Day 7 inactivated H5-ND vaccine ● Day 7 & 17 Live Lasota vaccine	● Day 7 inactivated ND GVII vaccine ● Day 7 & 17 Live Lasota vaccine	● Day 7 ValleyVac ND ^{G7} vaccine ● Day 7 & 17 Live Lasota vaccine	
Challenge dose and route of challenge (Challenged by ND GVII)	● 10 ⁶ EID50 per bird via the intranasal route 28 Days of Age			
Assessment for	● Clinical Signs	● Mortality	● Shedding assessment (Cloacal and Tracheal)	

Clinical Signs and Mortality

		Eye Lesion	Respiratory Signs	Greenish Diarrhea	Nasal Discharge	Nervous signs	Mortality %
G1	H5-ND Lasota (German vaccine)	--	37 %	71 %	9 %	-	23 %
G2	rNDV GVII (Korean vaccine)	6%	29 %	57 %	6 %	3 %	14 %
G3	ValleyVac® NDG7	--	8 %	28 %	5 %	-	3 %
G4	Control +ve	43%	100 %	91 %	51 %	-	91 %

Above table shows that the lowest affected group with lowest clinical signs and mortality after ND GVII challenge was ValleyVac® vaccinated group which also reflects on performance in field.

Shedding Assessment



Shedding assessment shows that ValleyVac® ND^{G7} group is the most shedding controlled group as in tracheal assessment from 2nd day post vaccination virus not detected by PCR, and also for the cloacal shedding assessment from the 2nd day post challenge the virus was not detected by PCR, while in other 2 vaccinated groups shedding was detected by high count till 4th day post challenge. Which reflects on good epidemiology of the vaccinated farms due to decrease in viral count after challenge.