

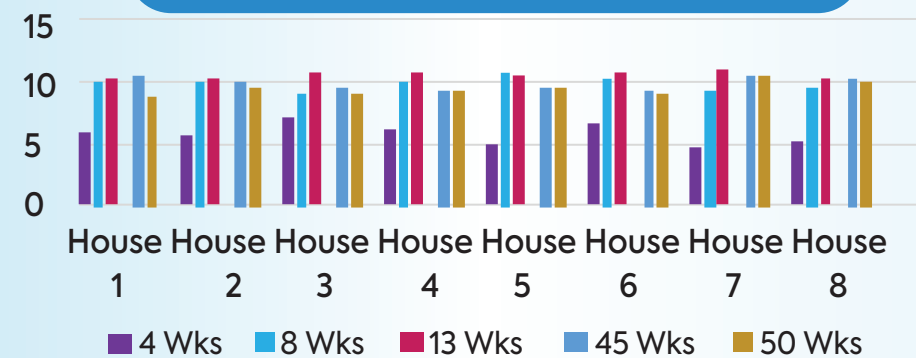


Guarantee of Performance and Results.

Long Life Bird (Broiler Breeders)

Project	Broiler Breeder Project
Farm Capacity	96,000 (8 Houses × 12,000)
Average Maternal Derived Antibodies Level (HI)	8.2
ValleyVac® Avian Flu H9N2 vaccination program	1 st , 5 th , 22 nd and 40 th weeks of age
Dose	0.5ml/ Bird

Serological Monitoring for ValleyVac® H9N2 in Broiler breeder flock for 50 weeks including rearing and production periods



Above commercial study on broiler breeders flock shows that ValleyVac® Avian Flu H9N2 achieves rapid protection from 3 weeks post vaccination, and long time of protective titers reaches to 20 weeks in production period, which is reflecting booth massive antigenic mass in addition to unique adjuvant which provides long duration of immunity.

Dose and Recommendations:

- Dose: 0.5 ml / Bird
- For broiler: once at first week of age
- For breeder and layer pullets: at least twice in rearing period, one of them at first 4 weeks of age, the second after 4:6 weeks.



ValleyVac® H9 Range

(ValleyVac® H9-ND^{G7} / Avian Flu H9N2)

Smartest way to control LPAI H9N2



ValleyVac® H9 Range

How you can choose the most suitable H9N2 vaccine in smart way?

Most Matching Strain.

Massive Antigenic Mass / Dose.

Adjuvant for Rapid immune stimulation.

Guarantee of Performance and Results.

IMMUNOGENICITY and CONCENTRATION



ValleyVac® H9-NDG7 H9N2		
Strain	Concentration	
	EID ₅₀	HAU
G1 Lineage Middle East Isolate	> 10 ⁹	> 512 HAU

NDV Genotypes and concentration

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

ValleyVac® H9-ND^{G7} was innovated for development of broad, high and prolonged protection level for both H9N2 and NDV through achievement of:

- 1- Most specific high antibodies through massive concentration / dose from LPAI H9N2 and NDV.
- 2- Rapid cellular and prolonged humoral immunity through unique adjuvant "Montanide ISA 71"



ValleyVac® Avian Flu H9N2 H9N2		
Strain	Concentration	
	EID ₅₀	HAU
G1 Lineage Middle East Isolate	> 10 ⁹	>512 HAU

ValleyVac® Avian Flu H9N2 was innovated for development of high and prolonged protection level for LPAI H9N2 through achievement of:

- 1- Most specific high antibodies through massive concentration / dose from LPAI H9N2.
- 2- Rapid cellular and prolonged humoral immunity through unique adjuvant "Montanide ISA 71"

Guarantee performance and field results

comparative trial between ValleyVac® H9-ND^{G7} and American H9N2 vaccine in commercial broiler flock

Location	Alex. Road-Egypt
Previous disease history	H9 & IB infections
Farm Capacity	125,000 for each one
Type of house	Closed, floor rearing, automatic
Surrounding farms	Breeder farm

	Farm 1	Farm 2
Used H9 Vaccine, dose and age of vaccination	ValleyVac® H9-ND ^{G7} 4 days old (0.5ml/ bird)	H9-ND 4 days old (0.25ml/ bird)
Challenges	H9N2 (diagnosed by PCR in 18 th day of age) - CRD	H9N2 (diagnosed by PCR in 18 th day of age) – CRD
Final Body weight at 37 days old	2.29 Kg	1.9 Kg
Mortality %	6.89 %	21.23 %
FCR	1.55	1.75
European Production Efficiency Factor (EPEF)	370.78	231.79



Conclusion of field trial

Conclusion of field trial	ValleyVac® H9-ND ^{G7}	American H9-ND vaccine
Protection	Excellent	Poor
Flock performance	Very good	Below average
Cost efficiency	↑	↓

The above comparative study shows superior protection achieved through ValleyVac® Avian Flue H9N2 compared with american one due to massive antigenic mass per dose, most matching strain in addition to unique adjuvant that provides rapid immune stimulation.