

ValleyVac® Avian Flu H5 Plus

Power of H5 integrated protection



BROADEST

HPAI H5N8
HPAI H5N1

HIGHEST

Massive Antigenic
Mass for Each Dose

FASTEST

Unique Adjuvant
Montanide™ ISA 71 to promote Rapid
and protective level of immunity in
commercial Poultry flocks.

**LEVEL OF INTEGRATED
PROTECTION AGAINST HIGHLY
PATHOGENIC AVIAN INFLUENZA
CIRCULATING STRAINS**

DOSE 0.5 ml/ Bird

Recommendations

For Broilers: 0.5 ml/bird once at 5-10 days of age.
For Broiler Breeders and Layers: 2 or 3 times in
rearing period according to veterinarian
recommendations.

Package

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

Storage

ValleyVac® Avian Flu H5
plus should be storage
at 4-8c.

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101 extension of the sixth industrial zone,
6th of October city, Egypt.



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#ValleyVac® Avian Flu H5 Plus

VALLEYVAC® AVIAN FLU H5 PLUS

Is a unique inactivated poultry vaccine was innovated for development of broad, integrated, prolonged protection against highly pathogenic avian influenza clades 2.3.4.4b and 2.2.1.2

HPAI Strain	Clade	Concentration/
RG/H5N8	2.3.4.4b	> 512 HAU
RG/H5N1	2.2.1.2	> 512 HAU

Development of integrated antibodies for protecting from different avian flu clades:

Induction of rapid and prolonged immunity
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 seroconversion in commercial broilers

Following serological monitoring is for commercial broiler farm



Location of farm	Egypt, Giza
Number of birds	600,000 / Cycle
Rearing system	Cage
Number of houses	12 × 50,000 broiler birds
Day of vaccination	7 Days old
Serological monitoring	24 days old 34 days old selling age
Used antigen in titration	Homologues antigen

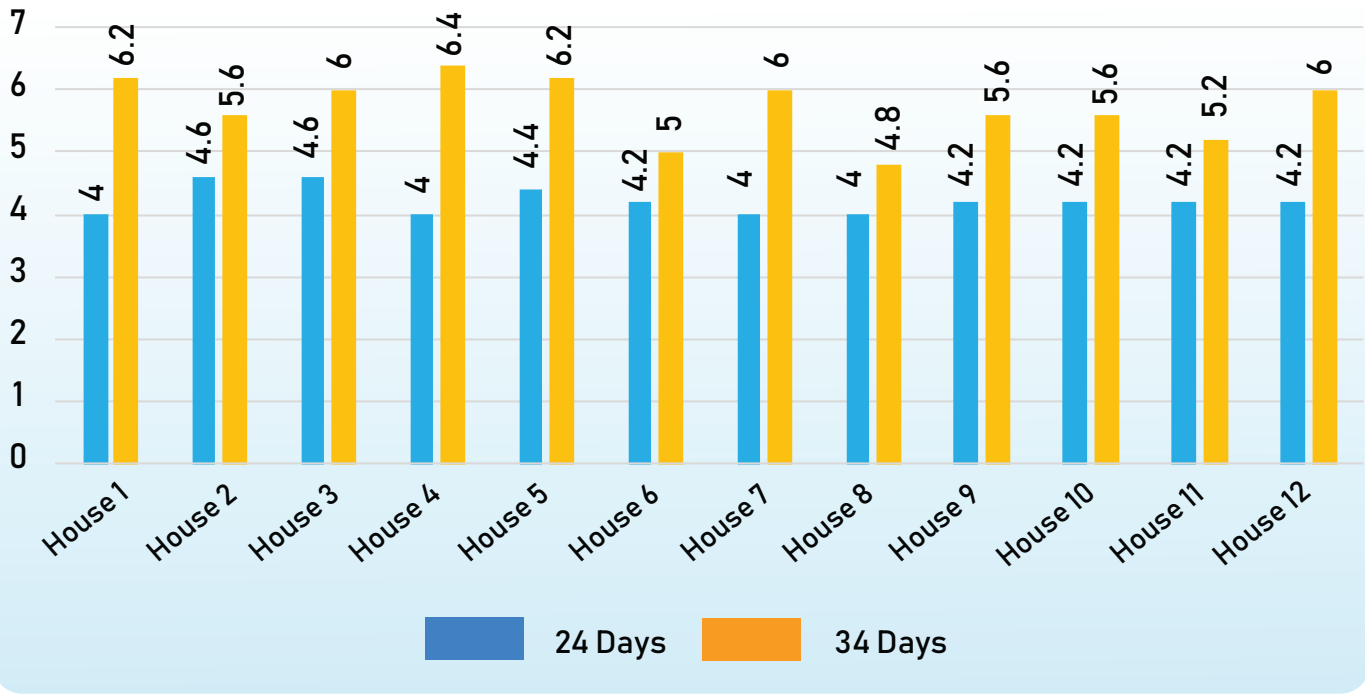
Assessment of protection against different HPAI Clades and strains

Vaccine used and time of vaccination	Challenge Data		Protection %
	Dose and rout of infection	Strain	
ValleyVac® Avian Flu H5 Plus 7 Days Old	Commercial Broiler Chickens - Day of challenge: 21 days post vaccination - Dose and route of challenge: 10 log 6 Intra nasal	A/Chicken/Egypt/S1818C/2020 (H5N8)	100%
		A/Duck/Egypt/SMG4/2019 (H5N8)	90%
		A/Duck/Egypt/FAO-S78/2017 (H5N8)	100%
		A/Turkey/Eg/FAOS42/2019 (H5N8)	100%
		A/Chicken/Egypt/S75/2015(H5N1)	100%

The above table shows ValleyVac® Avian Flu H5 Plus challenge results against different clades and strains of HPAI H5 and reveals that the vaccine

- Has superior percentage of protection reaches to 90 to 100% against HPAI of clades 2.3.4.4b and 2.2.1.2.
- Rapid protection reaches to 21 days post vaccination.
- Protect against different HPAI strains originated from chicken, duck, and turkey.
- Shedding assessment: reduce virus shedding in vaccinated bird (2-3 log 10) 3rd day post challenge and complete prevention of shedded virus at 5th day post challenge.

Serological Monitoring of ValleyVac® Avian Flu H5 Plus in broiler farm



Above serological monitoring reveals high immunogenicity of ValleyVac® Avian Flu H5 Plus due to high antigenic mass / dose, in addition to rapid immune response which reflects fast response induced by unique adjuvant Montanide™ ISA 71.