

ValleyVac® Penta-Pro

IT'S TIME TO SHIFT.. FOR PENTA CONTROL

One Dose
(With Minimal Stress)

No Shift in farm good
Epidemiological situation
(Efficiently)



ValleyVac® Penta-Pro Dose and Recommendation

FOR BROILER FLOCKS

In Normal Epidemic areas:

0.5 ml/ Bird Single Dose 5-8 days old

In High Epidemic areas :

Prime Boosting vaccination strategy is preferable

FOR LAYER AND BREEDER PULLETS

One Shot Only Either for:

0.5 ml / Bird for Set Up at beginning of rearing Period

OR 0.5 ml / Bird Before Production

OR 0.5 ml / Bird for Shooting immunity in mid-production period



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ValleyVac® Penta-Pro

Empowered by **ISCOM**
IMMUNOSTIMULATING COMPLEX



ValleyVac® Penta-Pro Composition

H9N2 G1 -Lineage Recent Middle East Isolate

NDV GVII Middle East Isolate Whole Virus

NDV GII Middle East Isolate Whole Virus

H5N1 Clade 2.2.1.2 Middle East Isolate

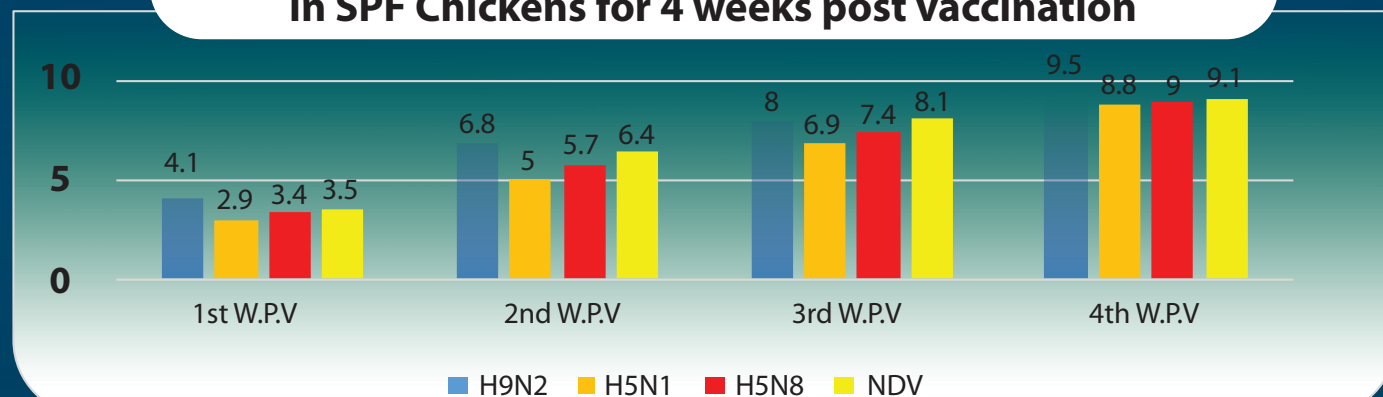
H5N8 Clade 2.3.4.4b Recent Middle East Isolate

Each Penta-Pro Dose contains
Optimized Massive Antigenic Mass of recent Middle East isolated viruses to control

- High Pathogenic Avian Influenza Viruses H5N8 & H5N1
- Low Pathogenic Avian Influenza Virus H9N2
- Newcastle Disease Viruses Genotype VII and Genotype II

Each Dose Empowered by 25 µg ISCOM to achieve rapid and protective immune response

Serological Monitoring of ValleyVac® Penta-Pro in SPF Chickens for 4 weeks post vaccination



Study shows the power of ISCOM and optimized massive antigenic pay load/ one dose which reflect on Immune response to all antigens rapidly from 1st week post vaccination till 4th week.
Trial Execution was in VACCINE VALLEY Lab. Animals House on SPF Chickens
Penta-Pro was vaccinated 21 days old by dose 0.5 ml/ Bird and titration was by vaccine valley antigens in R & D labs



ValleyVac® Penta-Pro

Assessment of protection against different HPAI H5NX Clades and strains

HPAI

Vaccine used and time of vaccination	Challenge Day Type of birds	Challenge Virus	Year Of Isolation	Clade	Bird which isolated from	Protection Percentage
ValleyVac® Penta Pro 7 Days Old	21 D.P.V / commercial broiler	H5N1 clade 2.3.4.4b 2022	2022	2.3.4.4	Chicken	94 %
		A/Chicken/Egypt/S1818C/2020 (H5N8)	2020	2.3.4.4	Chicken	100 %
		A/Duck/Egypt/SMG4/2019 (H5N8)	2019	2.3.4.4	Duck	90 %
		A/Turkey/Eg/FAOS42/2019 (Clade 2.3.4.4)	2019	2.3.4.4	Turkey	100 %
		H5N8 A/CH/Eg/ 1748V/2019	2019	2.3.4.4	Chicken	90 %
		A/Duck/Egypt/FAO-S78/2017 (H5N8)	2017	2.3.4.4	Duck	100 %
		A/Chicken/Egypt/S75/2015(H5N1)	2015	2.2.1.2	Chicken	100 %

The above table shows that ValleyVac® Penta- Pro challenge results against different clades and strains of HPAI H5 NX 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) 3 days post challenge and complete prevention of shedded virus at 5days post challenge.

ValleyVac® Penta-Pro Performance Tracker in Long Life Birds

Study Shows that serological monitoring of Penta-Pro for 20 weeks post vaccination in layer flock reveals, Rapid immune response from 5 antigens, long life protection for 20 weeks, and homogenous high antibodies titers of 5 antigens. Which reflects on birds immune status, performance, and production.

