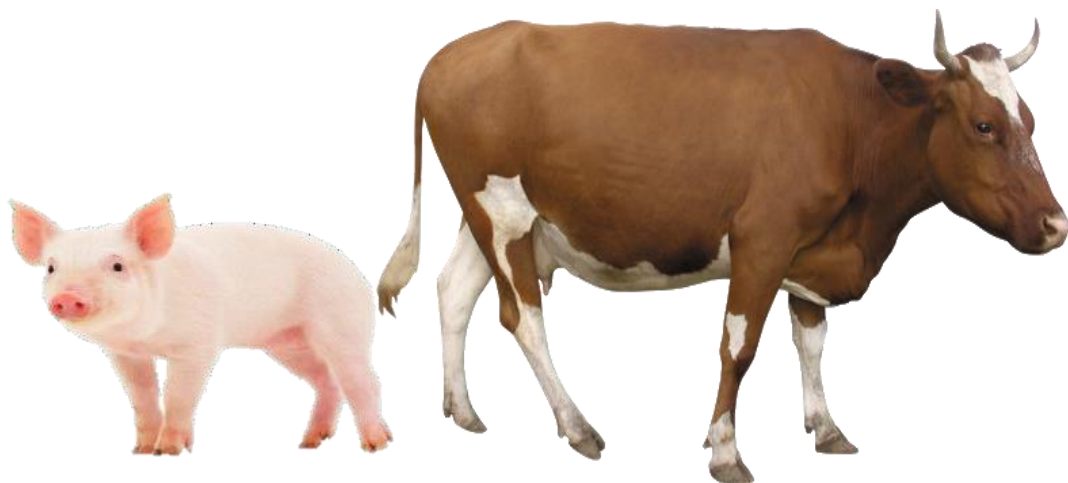


Plumblinē
Life Sciences
Novel DNA Therapeutics

PLS-IF1000 (FMD Trivalent DNA Vaccine)

Plasmid-based DNA Vaccine and Electroporation Platform Technology



PLS-IF1000

Product Information

- PLS-IF1000 is FMD trivalent DNA Vaccine preventing serotypes(O,A, and Asia 1) of FMDV infection which are prevalent in Asia.
- DNA Vaccine does not need to boost immune response by using oil adjuvant which often causes abscesses or granuloma formed at the injection site.
- Thus, this will save economic loss from abscesses or granuloma formed on pig.

Product Mode of Action (MoA)

- PLS-IF1000 FMD DNA vaccine is plasmid encoded with optimized FMD trivalent (O, A, & Asia 1) virus antigen.
- The optimized plasmid is injected into pig or cow by Collectra, the proprietary DNA delivery device, to induce neutralizing antibody as well as strong cellular immune responses.

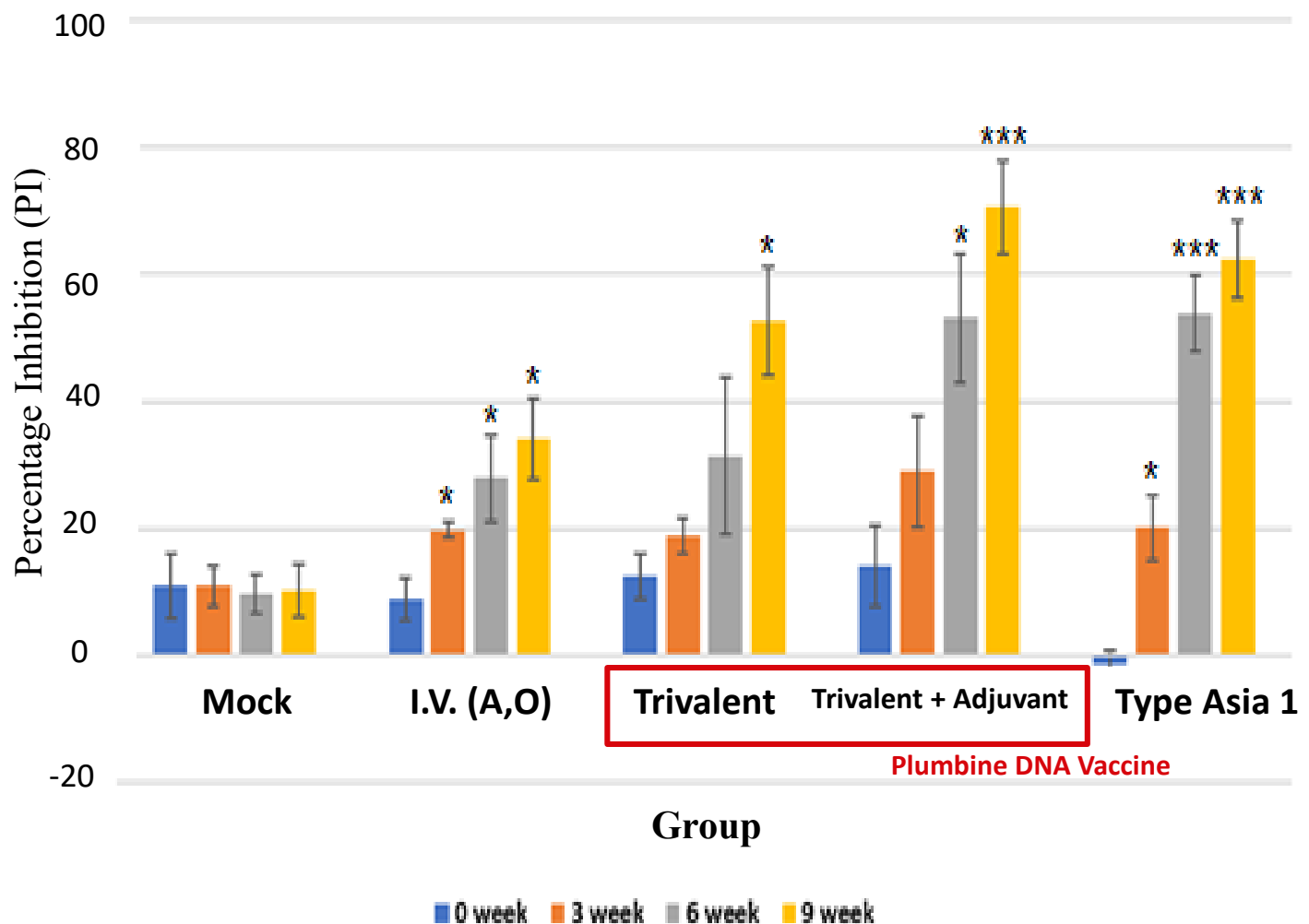


PLS-IF1000 (FMD Trivalent DNA Vaccine)

Conventional Vaccine: Drops below 50% after 9 weeks
Plumblin DNA Vaccine: Retain 25 weeks

<Serotype Specific Antibody Response>

Antibody Formation Rate (Asia 1)



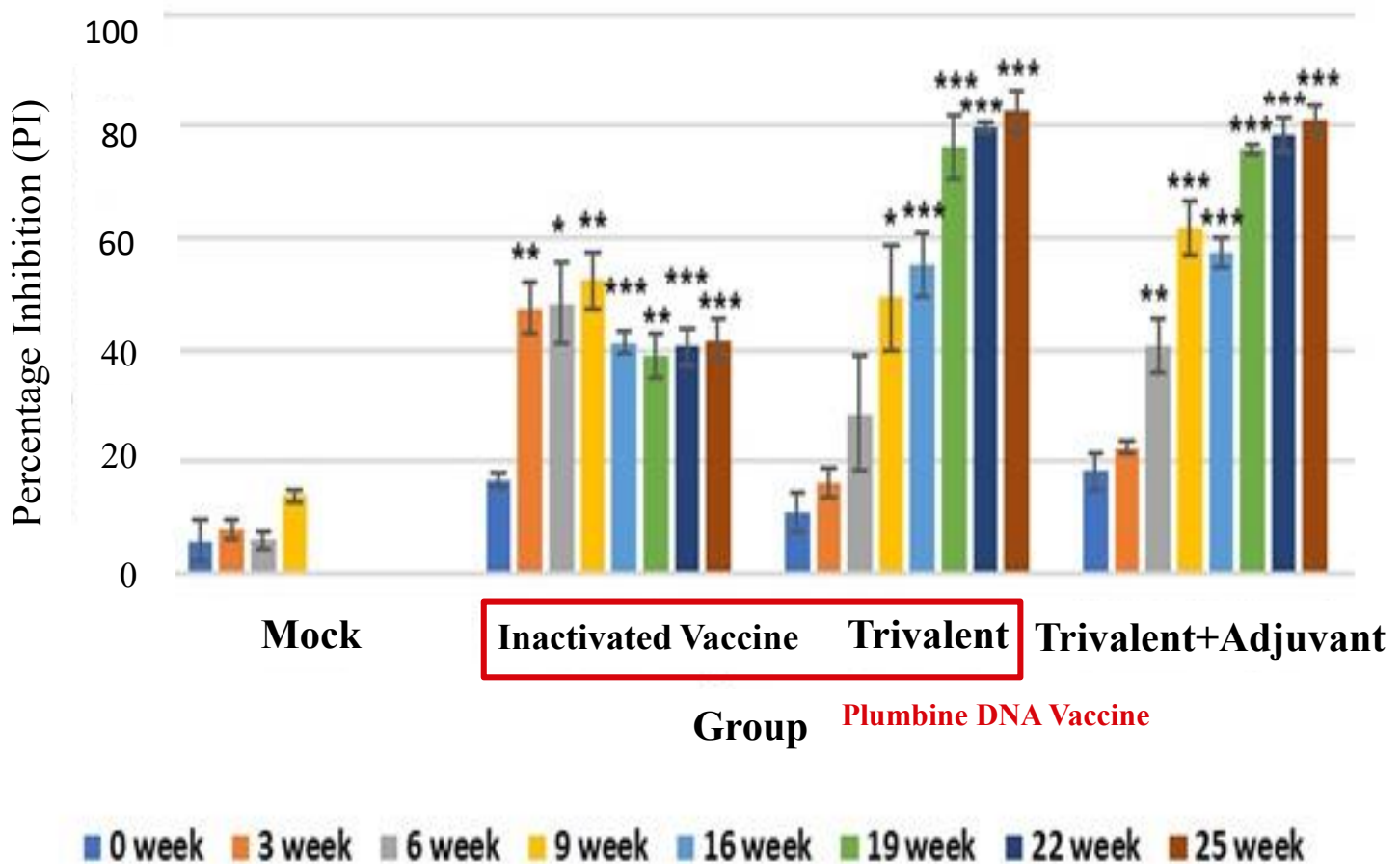
I.V. (A, O): Conventional 2 serotype (2ml)
Adjuvant: LifeTide® SW5 (1 combination injection)

PLS-IF1000 (FMD Trivalent DNA Vaccine):

Conventional Vaccine: Drops below 50% after 9 weeks
Plumblin DNA Vaccine: Retains 25 weeks

<Serotype Specific Antibody Response>

Antibody Formation Rate (A, O)



I.V. (A, O): Conventional 2 serotype (2ml)
 Adjuvant: LifeTide® SW5 (1 combination injection)

Memo



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