



## World-class FMD Vaccine.

Protecting animal  
health. Securing  
livelihood of  
farmers.

The evolution of animal health



**Biogénesis  
Bagó**



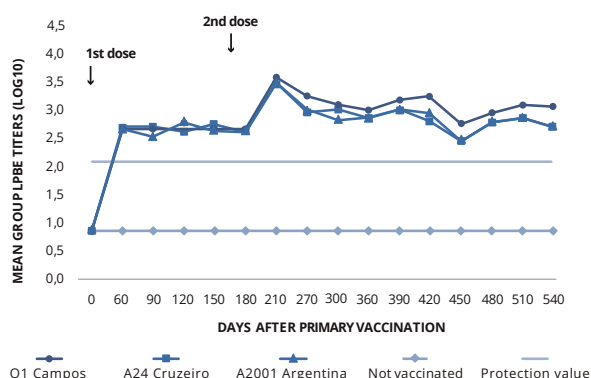
Foot and Mouth Disease (FMD) is a highly contagious disease which affects susceptible cloven-hoofed animals.

**BIOAFTOGEN**, an inactivated FMD Vaccine composed of 01 Campos, A24 Cruzeiro, and A2001 Argentina vaccine strains has proven safety and efficacy profile across the globe and in Vietnam.

## Long duration of immunity and safety in target species



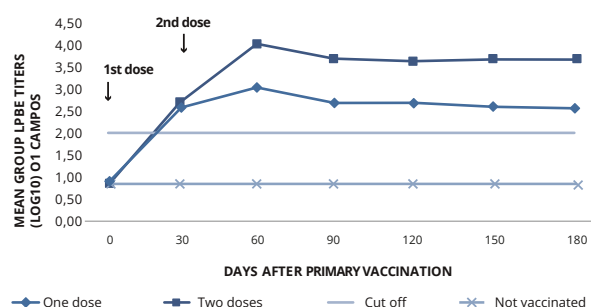
### Large Ruminants



Vaccination: 2mL/dose by intramuscular injection. Cattle: free of FMDV antibodies prior to vaccination. Second dose administered at 180 dpv.



### Swine

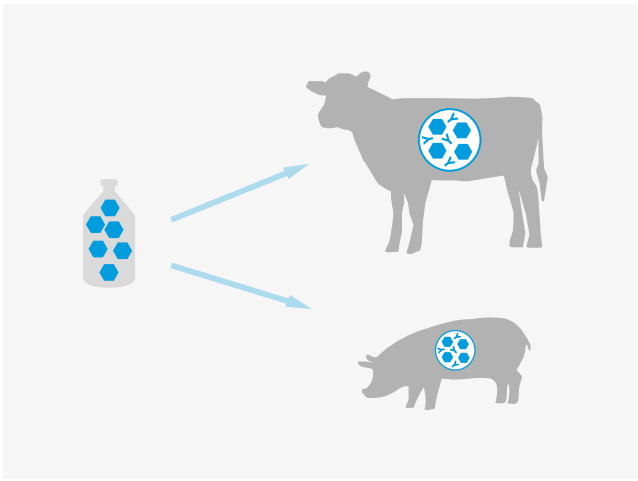


Vaccination: 2 mL/dose by intramuscular injection. Swine: 8 weeks old pigs free of FMDV antibodies prior to vaccination. Second dose administered at 30 dpv to two doses group.



# Highly purified DIVA vaccine contributes to FMD control and eradication programs

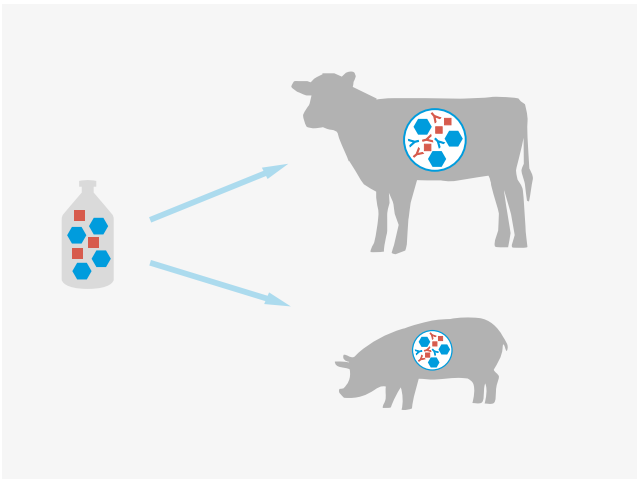
**Biogénesis Bagó** Foot and Mouth Disease Vaccine



Can be differentiated from natural infection

● SP: structural proteins      ↗ Antibodies against SP

Non-DIVA Foot and Mouth Disease Vaccine



Can not be differentiated from natural infection

■ NSP: non-structural proteins      ↗ Antibodies against NSP

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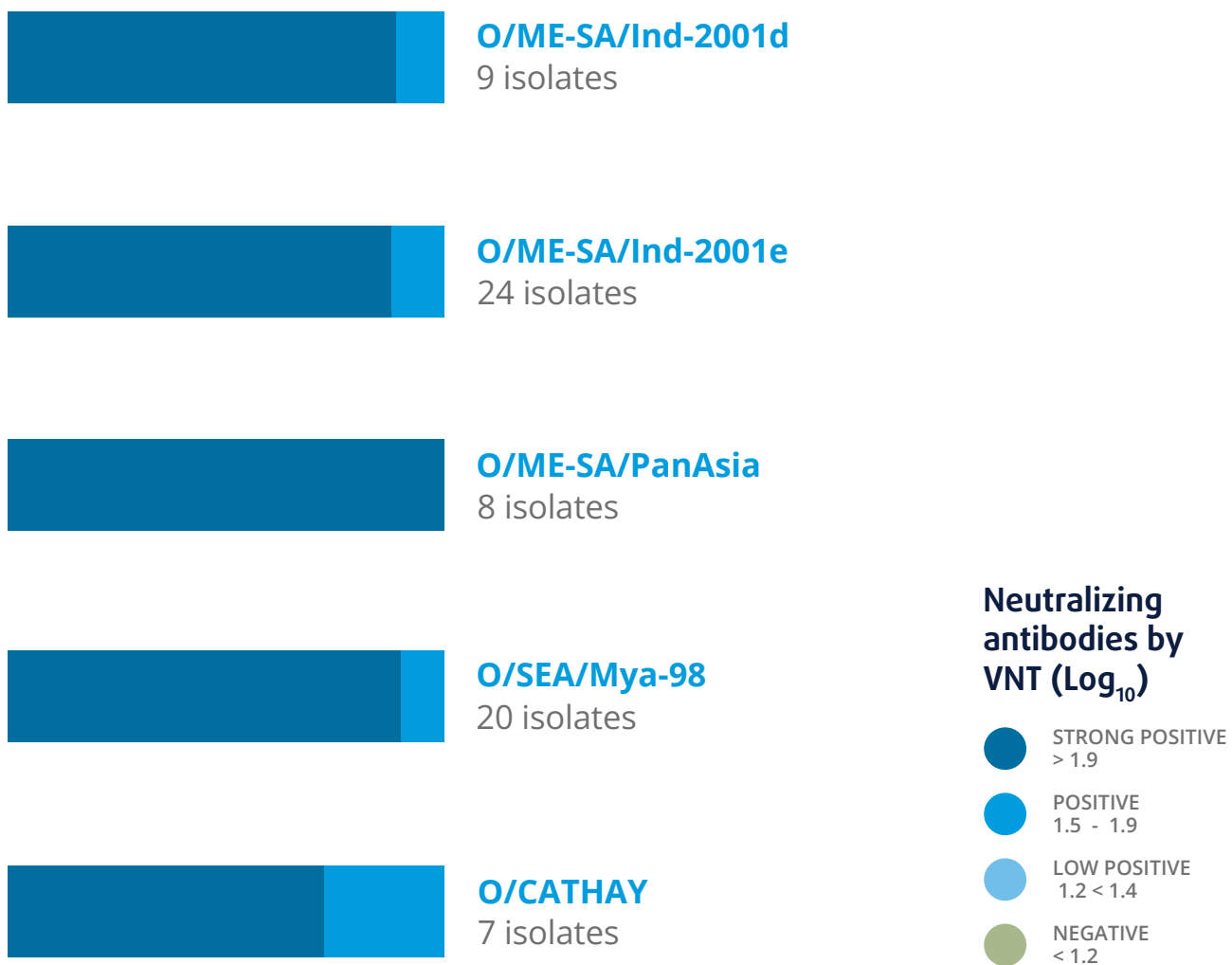


# Broad cross protection against field circulating strains in the Asia region

Vaccine matching against representative FMDV from several topotypes and lineages that circulated in Southeast Asia, Central Asia, East Asia, and South Asia regions during the past years. Serological match between vaccine strain and field isolates are based on heterologous viral neutralization titers (VNT) as an indicator of heterologous cross-protection. Values greater than or equal to  $1.5 \log_{10}$  after vaccination with a single dose are considered an indicator of minimum heterologous cross-protection.

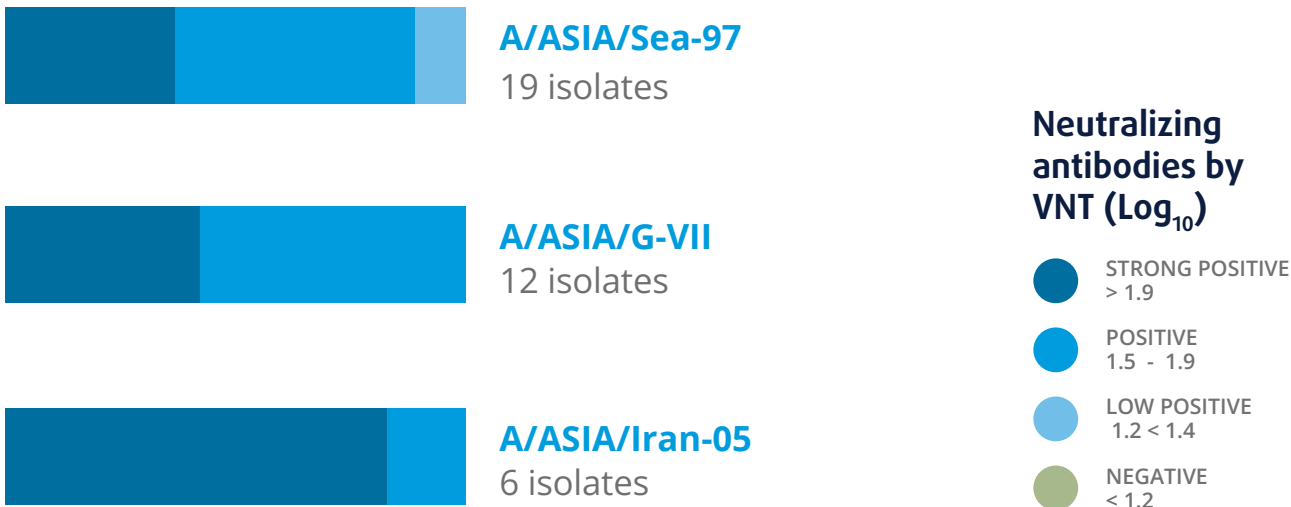
## Serotype 0 Field samples from Southeast Asia, Central Asia, East Asia and South Asia (2010-2021)

### 01 Campos (Biogénesis Bagó)



# Serotype A Field samples from Southeast Asia, Central Asia, East Asia and South Asia (2010-2021)

A24 Cruzeiro | A2001 Argentina (Biogénesis Bagó)



High Potency vaccine:  
Protection against Heterologous  
O and A strains from Asia



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