

**Biogénesis Bagó**  
**FMD world-class vaccines**  
**AFTOGEN OLEO & BIOAFTOGEN**



**Biogénesis**  
**Bagó**



**Vaccination as a main  
tool for control and  
eradication of FMD**



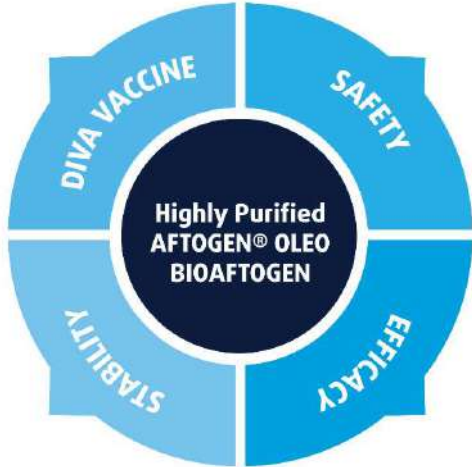
**Biogénesis  
Bagó**

# AFTOGEN OLEO & BIOAFTOGEN World-Class FMD Vaccines



Differentiation of vaccinated animals from natural infections. Key for eradication programs.

Long shelf life of 24 months due to removal of proteases.



Produced under the highest quality standards

High antibody production and broad immunological cross-protection



# Biogénesis Bagó FMD world-class vaccines Quality Controls



## Antigen Production

Aprox 480 quality  
control points

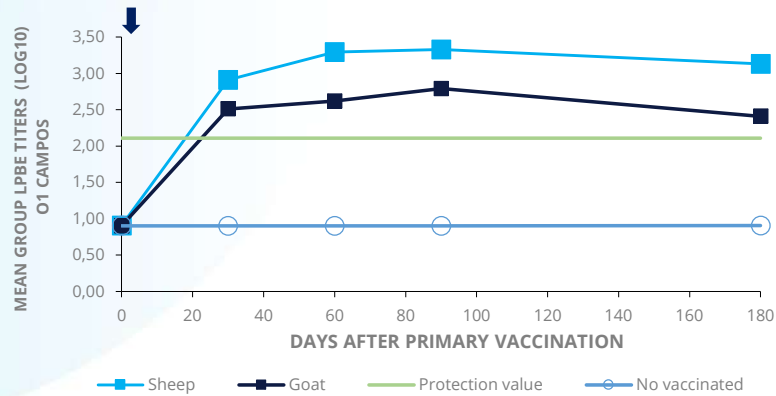
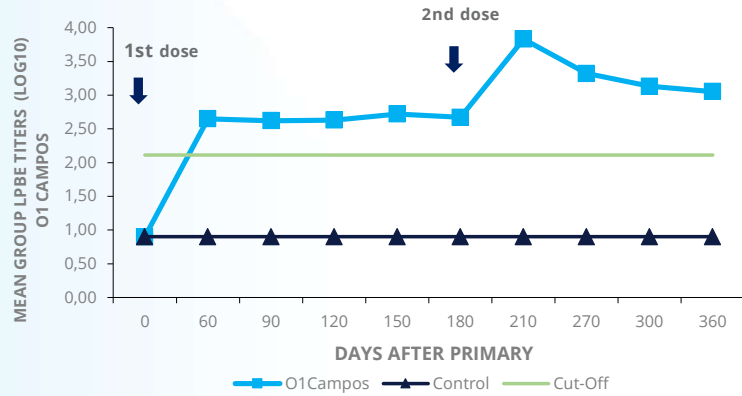


## Final Product

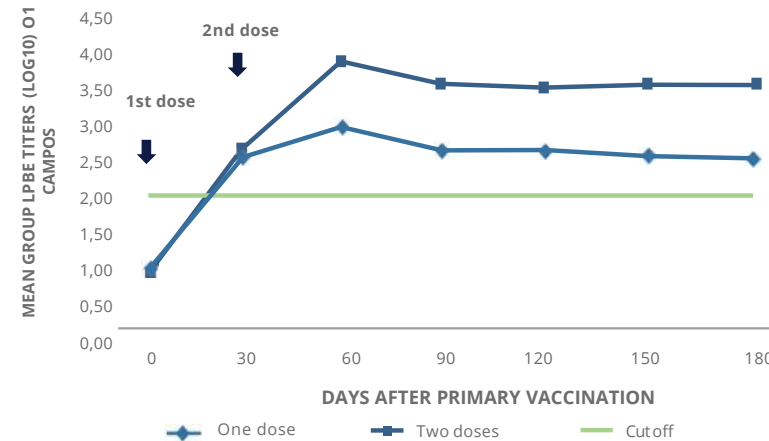
25 quality  
control points



↓ vaccination



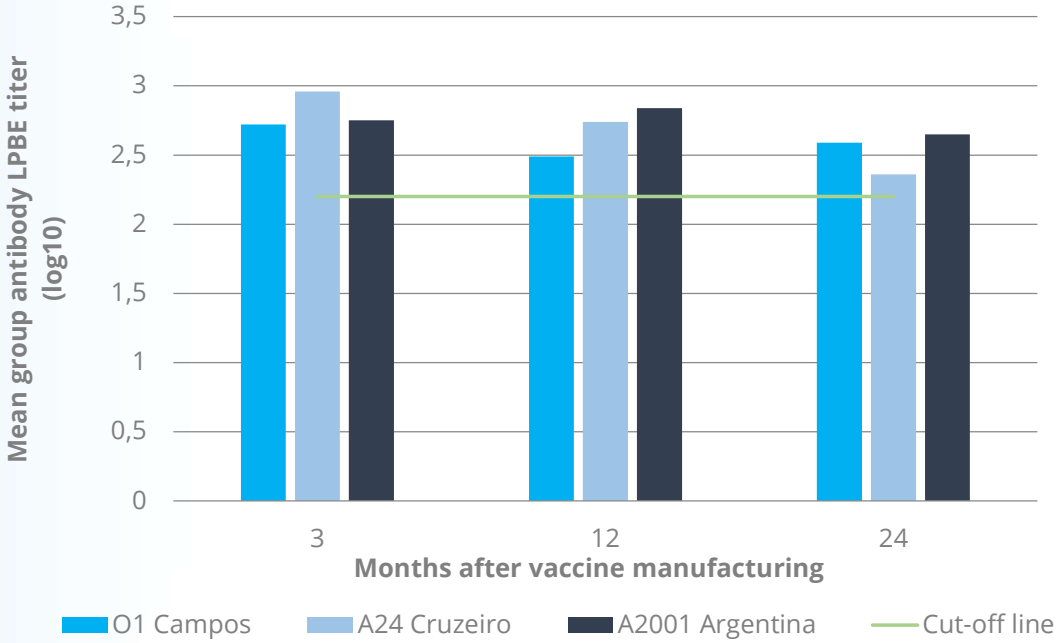
# Our world-class one-shot vaccines elicit enough immunity for at least 6 month.\*



\*According to epidemiological situation and health authorities' recommendation: revaccinate 3-4 weeks after first dose. Administer subsequent doses every six or twelve months in all species.



# AFTOGEN OLEO & BIOAFTOGEN World-Class FMD Vaccines



Stable potency  
throughout the  
product's shelf life  
(24 months)

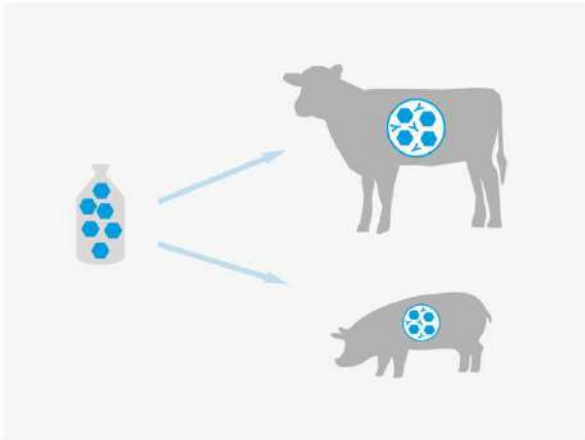
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# AFTOGEN OLEO & BIOAFTOGEN

## World-Class FMD Vaccines

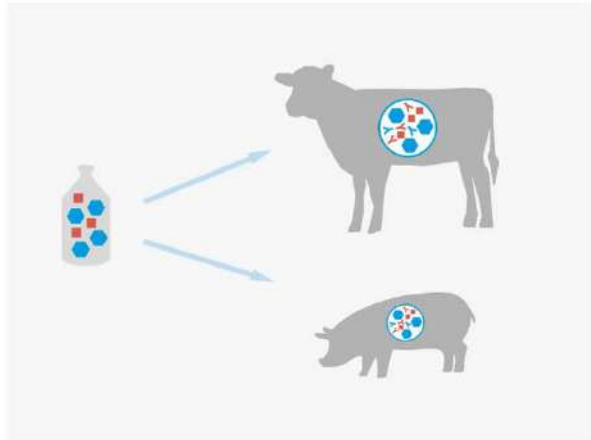
### Biogénesis Bagó Foot and Mouth Disease Vaccine



Can be differentiated from natural infection

● SP: structural proteins    ▲ Antibodies against SP

### Non-DIVA Foot and Mouth Disease Vaccine



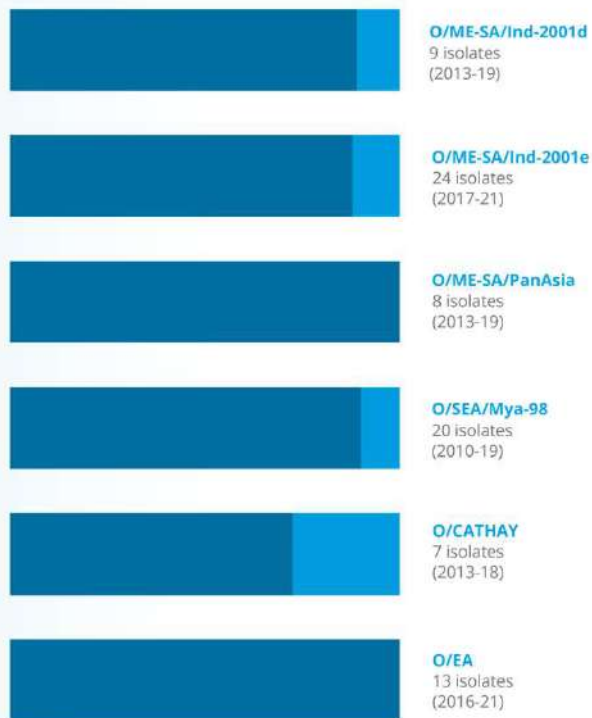
Can not be differentiated from natural infection

■ NSP: non-structural proteins    ▲ Antibodies against NSP

### DIVA

- Highly purified and stabilized antigens
- Vaccines free of non-structural proteins (NSP), allowing to Differentiate naturally Infected from Vaccinated Animals (DIVA vaccines)

## O1 Campos high potency vaccine heterologous neutralization titers type O field isolates



## Broad immunological cross protection



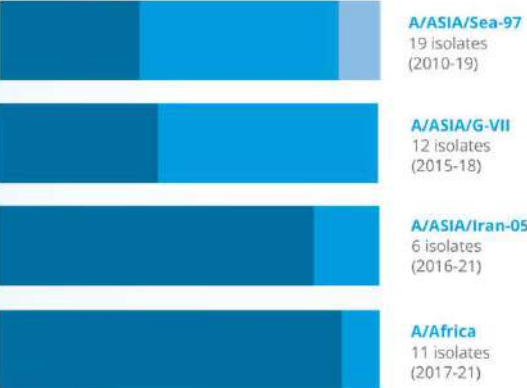
### Neutralizing antibodies by VNT (Log<sub>10</sub>)

- STRONG POSITIVE > 1.9
- POSITIVE 1.5 - 1.9
- LOW POSITIVE 1.2 < 1.4
- NEGATIVE < 1.2



# Broad immunological cross protection

## A24 Cruzeiro and A2001 Argentina high potency vaccine heterologous neutralization titers type A field isolates



## Asia KZ03 high potency vaccine heterologous neutralization titers type Asia1 field isolates



### Neutralizing antibodies by VNT (Log<sub>10</sub>)



## Biogenesis Bagó the Global Leader in the Control and Eradication of FMD



- ✓ More than 3000 million doses administered in the last 20 years around the world position Biogenesis Bagó as global leaders in the Control and Eradication of FMD
- ✓ Unique One Shot FMD vaccine in the market, with early onset of immune response and duration of immunity for at least 6 months
- ✓ Our presence in different regions and experience in emergency attendance proves the broad immunological coverage of our world-class vaccines
- ✓ We provide customized solutions for the control and eradication of Foot and Mouth Disease as well as solutions for Emergency preparedness with our Antigen and Vaccine Bank service

**Thank you  
for your attention**

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