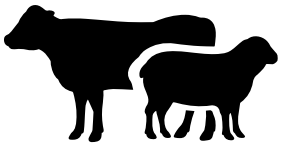
APHTHOVAC™ TRI

TRANSBOUNDARY CONTROL



Inactivated trivalent viral vaccine for immunization against FMD serotypes A-Iran05, O-PanAsia2, and Asia1/Shamir

INTRODUCTION

Foot-and-mouth disease (FMD) is a highly contagious viral disease of cloven-hoofed animals. The disease was initially described in the 16th century and was the first animal pathogen identified as a virus. The transboundary spread and significant economic impact have increased the concern of national authorities worldwide to deploy integrated control measures under the frame of National Control Programs.[1]

The causal agent is the foot-and-mouth disease virus (FMDV) which belongs to the Aphthovirus genus of the Picornaviridae family. Seven serotypes (A, O, C, Asia 1, and South African Territories 1, 2, and 3) have been identified serologically, and multiple subtypes occur within each serotype.[1]

Traditional FMD vaccines contain defined amounts of one or more chemically inactivated preparations of a seed virus strain blended with a suitable adjuvant and excipients. According to WOAH, commercial FMD vaccines should comply with important criteria: i) formulated with sufficient antigen and appropriate adjuvant to have a minimum potency level of 3 PD50 [50% protective dose]; ii) provide 6 months of immunity after two initial vaccinations given 1-month apart; iii) vaccine strains are selected based on antigenic relationship with circulating strains.[2]

COMPOSITION (before inactivation)

- Inactivated FMD A-Iran05 strain ≥ 6.0 PD_{50}/dose
- Inactivated FMD O-PanAsia2 strain ≥ 6.0 PD_{50}/dose
- Inactivated FMD Asia1/Shamir strain ≥ 6.0 PD_{50}/dose

TARGET SPECIES

Cattle, buffalo, sheep and goat.

INDICATIONS

Active immunization of cloven-hoofed animals to reduce mortality and clinical signs associated with Foot and Mouth Disease (FMD) virus infections.

IMMUNITY

- Onset of immunity takes place about 10 days after immunization.
- Duration of immunity is at least 6 months.

VACCINATION PROGRAM

Animals can be vaccinated from early age, as per advice from your veterinarian.

- Primary vaccination: all adult animals should be vaccinated. Calves from vaccinated cows should receive the first dose at 3 months of age, while calves from unvaccinated cows should be vaccinated for the first time at 1 month of age.
- Booster vaccination: irrespectively of the age, a booster dose should be given 4 weeks later, then continued on a biannual basis.

WITHDRAWAL

Zero days.

CONSIDERATIONS

Some animals may develop swelling at the site of injection. These swellings will disappear within three days.

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PRESENTATION

APHTHOVAC™ TRI is packed and presented in 50 mL and 100 mL polyethylene terephthalate (PET) bottles.

DOSAGE

- **Cattle and buffalo**: 2 mL per animal via subcutaneous injection.
- **Sheep and goat**: 1 mL per animals via subcutaneous injection.

ADMINISTRATION

- The vaccine may occasionally separate into two layers on storage. This in no way affects its potency, however the vaccine should be shaken vigorously before and during use to ensure good emulsification.
- Allow the vaccine to reach room temperature (+20 to +25°C) before use.
- Use sterile injection equipment.
- Use the entire contents when first opened.
- Do not use APHTHOVAC™ TRI if you notice critical irreversible separation of the emulsion.

References

1. *Grubman and Baxt (2004). Foot-and-Mouth Disease. Clin Microbiol Rev. 2004 Apr; 17(2): 465–493. doi: 10.1128/CMR.17.2.465-493.2004*
2. *WOAH (2021). Technical Disease Cards. OIE Science Department. Last updated January 2021.*

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