NAROVAC® Anti-Tick Vaccine

Product Data Sheet

Product Name:	NAROVAC® Anti-Tick Vaccine
Manufacturer:	NARO Vaccines and Pharmaceuticals Centre
Product Description:	A subolesin-based vaccine for the control of ticks and tick-borne diseases in cattle.
Product Type:	Veterinary vaccine for control of ticks in livestock
Target Tick Species:	Brown Ear Tick (*Rhipicephalus appendiculatus*) Bont Tick (*Amblyomma variegatum*) Blue Tick (*Rhipicephalus decoloratus*)
Composition:	Active Ingredient: Subolesin protein Excipients: Adjuvant: Anhydro mannitol ether octodecenoate oily solution. Diluent: Phosphate Buffered Saline
Formulation:	Sterile, injectable emulsion
Target Species:	Cattle, Sheep and Goats
Indications:	For the active immunization of cattle, sheep and goats to control tick infestations
Mode of Action	Stimulates the immune system of livestock to produce antibodies against ticks. When ticks suck blood containing the antibodies, its body functions (feeding, reproduction, growth & immunity) are impaired leading to death and gradual reduction of tick populations in the farms.
Administration:	Intramuscular injection.
Dose:	1ml of the NAROVAC ATV-1 contains 100μg of Subolesin protein Adult Cattle: 1ml Calves less than 6 months: 0.5ml Sheep and Goat
Administration Regime:	Vaccinate animals on Day 1, and give the first booster dose on Day 30, and every 6 months. Day 1: First dose Day 30: 1st booster dose Day 180: 2nd booster dose (After the first vaccination) Subsequently vaccinate once every 6 months Shake gently before use
Contraindications:	Do not vaccinate animals with acute illness or infection
Precautions:	Use sterile syringes and needles. Do not mix with other vaccines or medications unless directed by a veterinarian. Observe animals for any adverse reactions following vaccination. Dispose of used vials and needles according to environmental and applicable regulations.
Side effects:	Mild, transient reactions may occur, including; local swelling at the injection site, mild fever, lethargy and minor milk reduction within 48 hours Report any suspected adverse reactions to a veterinarian and the NARO Vaccines and Pharmaceuticals Centre.
Storage:	Store at 4-8°C ((36°F - 46°F). Protect from light. Do not freeze.
Shelf Life:	2 years from the date of manufacture when stored properly
Packaging:	1* 50ml * 24 vials
Safety:	Studies have shown that NAROVAC is safe for use in cattle.
Withdrawal Period:	14 days
Regulatory Approval:	National Drug Authority
Contact Information:	NARO Vaccines and Pharmaceuticals Centre
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