

# DOTMEC-LA

## Ivermectin-31.5 mg Injection for Veterinary Use

### Description

Ivermectin is a potent, broad-spectrum antiparasitic agent from the ivermectin class. It targets a wide variety of internal and external parasites by binding selectively to glutamate-gated chloride ion channels in invertebrate nerve and muscle cells, causing paralysis and death of parasites. This injectable solution contains 31.5 mg ivermectin per ml and is designed for veterinary use to control nematodes, arthropods, and ectoparasites in livestock.

Formulated as a sterile injectable solution in amber glass vials (10 ml and 100 ml) to protect from light and maintain stability.

### Composition

- Active Ingredient: Ivermectin 31.5 mg per ml (3.15%)
- Excipients:
  - Propylene glycol (solvent)
  - Benzyl alcohol (preservative)
  - Water for Injection (vehicle)
- pH adjusted to maintain product stability and compatibility for injection

### Specification

- Appearance: Clear, colourless to pale yellow sterile solution
- Assay: 90% – 110% of labelled ivermectin content per ml
- Sterility: Complies with USP/BP sterility requirements
- pH range: 4.5 – 7.5
- Free from visible particulates
- Pyrogen-free as per pharmacopeial standards

## **Indications**

Ivermectin 31.5 mg injection is indicated for the treatment and control of:

- Gastrointestinal nematodes (roundworms) in cattle, sheep, goats, and swine
- Lungworms (*Dictyocaulus* spp.)
- Warbles (*Hypoderma* spp.)
- Mange mites (*Sarcoptes* spp., *Demodex* spp.)
- Lice infestations

## **Dosage and Administration**

- Recommended dose: 0.2 mg ivermectin per kg body weight (equivalent to 0.63 ml per 100 kg) administered by subcutaneous injection.
- Route of administration: Subcutaneous injection only; avoid intravenous or intramuscular administration.
- Usually administered as a single dose; repeat dosing if heavy infestation or per veterinary guidance.

## **Product Form**

Sterile injectable solution presented in amber glass vials in two sizes:

- 10 ml vial for precise dosing or small animals
- 100 ml vial for larger herds or frequent use

## **Usage and Advantages**

- Broad-spectrum antiparasitic efficacy against nematodes and ectoparasites
- Long-lasting effect with a single subcutaneous injection
- Convenient dosing and easy administration
- Minimizes risk of parasite resistance when used responsibly
- Suitable for a wide range of food-producing and companion animals

## **Adverse Effects**

- Mild local reactions such as swelling or pain at injection site may occur
- Neurological symptoms possible in sensitive breeds or overdoses (tremors, ataxia)
- Use caution in pregnant or lactating animals; consult veterinarian before use

## **Withdrawal Period**

- Meat and offal: Minimum 28 days before slaughter
- Milk: Do not use in lactating animals producing milk for human consumption
- Follow local regulations strictly for withdrawal compliance

## **Precautions**

- For veterinary use only; not for human use
- Use aseptic techniques during administration to avoid contamination
- Do not administer intravenously or intramuscularly
- Avoid use in animals known to be hypersensitive to ivermectin or formulation components
- Keep out of reach of children

## **Storage**

- Store between 15°C to 30°C (59°F to 86°F) in a dry, dark place
- Protect from light by storing in amber vial
- Do not freeze
- Keep vial tightly closed when not in use

## **Handling and Safety**

- Wear gloves during handling to prevent skin contact
- In case of accidental exposure in humans, seek medical attention immediately
- Dispose of empty containers and syringes safely according to biohazard regulations
- Avoid environmental contamination with unused product

## **HS Code and HSN Code**

- HS Code: 3004.90 (Medicaments consisting of mixed or unmixed products for therapeutic or prophylactic uses, put up in measured doses or in forms or packings for retail sale)
- HSN Code: 3004 (Medicaments for therapeutic or prophylactic uses)

## **Special Instructions**

- Strictly administer subcutaneously; intravenous or intramuscular routes are contraindicated
- Calculate dosage based on accurate body weight of animal
- Avoid use in aquatic animals due to high toxicity
- Observe animals post-treatment for adverse reactions for at least 24 hours

## **Details of Human and Veterinary Applications**

- Veterinary ivermectin formulations like this one are intended for livestock and domestic animals
- Human ivermectin formulations differ and should not be substituted with veterinary products
- Plays a key role in parasite control programs ensuring animal health and food safety

## **Frequently Asked Questions (FAQs)**

### **Q1: What is Ivermectin (IVM)?**

A: Ivermectin is a broad-spectrum antiparasitic agent used to treat various parasitic infections in animals and humans.

### **Q2: Can I use this 31.5 mg ivermectin injection in all animals?**

A: This formulation is intended for cattle, sheep, goats, and swine. Always consult a veterinarian before use in other species.

### **Q3: How long before slaughter can animals treated with ivermectin be slaughtered?**

A: A minimum withdrawal period of 28 days must be observed.

### **Q4: What if an animal is accidentally overdosed?**

A: Symptoms like tremors or lethargy may occur. Contact a veterinarian immediately.

### **Q5: Can ivermectin be used during pregnancy?**

A: Use only under veterinary supervision in pregnant or lactating animals.

### **Q6: How should I store ivermectin injection?**

A: Store in a cool, dark place between 15°C and 30°C, avoid freezing and exposure to light.