

# DOTMEC

## (Ivermectin 1% w/v- 10mg Injection for Veterinary Use)

### Description

Ivermectin is a broad-spectrum antiparasitic agent belonging to the ivermectin class. It is extensively used in veterinary medicine for the treatment and control of various internal and external parasites, including nematodes, arthropods, and ectoparasites. This injectable formulation delivers a sterile solution of ivermectin at 1% w/v concentration (10 mg/mL), suitable for use in a variety of animal species such as cattle, sheep, goats, pigs, horses, and dogs.

### Specification

- **Appearance:** Clear, colourless to slightly yellow sterile injectable solution
- **Concentration:** 1% w/v (10 mg/mL)
- **pH:** Typically, between 5.0 – 7.5
- **Sterility:** Must be sterile and pyrogen-free
- **Packaging:** Supplied in sterile glass vials or ampoules, commonly in 1mL (Dispo Pack) ,10 mL, 50 mL, 100 mL sizes

### Composition

- Ivermectin: 1% w/v (equivalent to 10 mg/mL)
- Excipients: Sterile water for injection, stabilizers, preservatives (may vary by manufacturer)

### Category

- Antiparasitic agent
- Endectocide (effective against internal and external parasites)
- Veterinary pharmaceutical product

### Indications

- Treatment and control of gastrointestinal nematodes, lungworms, and other internal parasites in livestock and companion animals
- Control of external parasites such as mites, lice, and mange

## **Dosage and Administration**

- **Dose:** Typically, 0.2 mg/kg body weight (2 mL per 10 kg)
- **Route:** Subcutaneous or intramuscular injection (species-specific guidelines must be followed)
- **Frequency:** Single dose; may be repeated as advised based on parasite lifecycle and veterinary instructions
- Use dosing syringes or equipment provided for accurate administration

## **Product Form**

- Sterile injectable solution
- Concentration: 1% w/v (10 mg/mL)
- Pack sizes: 1mL (Dispo Pack) ,10 mL, 50 mL, 100 mL Vials

## **Usage Instructions**

- Administer using aseptic technique
- Shake well before use if directed
- Dispose of needles and syringes safely post-use
- Adhere strictly to withdrawal periods before animal products enter the food chain

## **Advantages**

- Broad-spectrum activity against a wide range of parasites
- Effective at low doses
- Long-lasting efficacy
- Simple injectable administration
- Proven safety across multiple animal species

## **Adverse Effects**

- Mild, transient swelling or discomfort at injection site
- Rare hypersensitivity or allergic reactions
- Neurological symptoms (ataxia, tremors) possible in overdose or sensitive animals
- Avoid use in animals with known ivermectin hypersensitivity

## Withdrawal Period

- **Meat:** Approximately 28 days (species dependent)
- **Milk:** Typically, 3-7 days (follow local regulations)
- Compliance with withdrawal times is essential for food safety

## Storage Conditions

- Store between 15°C to 30°C
- Protect from light and freezing
- Keep out of reach of children and animals
- Do not use after expiry

## Handling Precautions

- Wear gloves during handling
- Avoid skin and eye contact
- Wash immediately if accidental exposure occurs
- Dispose of unused product and packaging according to hazardous waste guidelines

## HS and HSN Code

- **HS Code:** 3004.90 (Pharmaceutical preparations)
- **HSN Code (India):** 3004.90.90

## Special Instructions

- For veterinary use only, **NOT FOR HUMAN USE**
- Use only as prescribed by a licensed veterinarian
- Avoid use in animals with hepatic or renal impairment without veterinary consultation
- Monitor treated animals for any adverse effects

## Details of Human and Veterinary Application

- **Veterinary Use:** Indicated for treatment and prevention of parasitic infections in livestock and companion animals
- **Human Use:** Veterinary ivermectin formulations are not intended for humans; separate human-grade ivermectin products are available

## Frequently Asked Questions (FAQs)

### **Q1: What is Ivermectin?**

A: Ivermectin is a broad-spectrum antiparasitic medication used in animals to treat internal and external parasites.

### **Q2: Which animals can receive Ivermectin 1% injection?**

A: Approved for use in cattle, sheep, goats, pigs, horses, and dogs under veterinary supervision.

### **Q3: How is Ivermectin 1% injection administered?**

A: By subcutaneous or intramuscular injection, usually at 0.2 mg/kg body weight.

### **Q4: What are common side effects?**

A: Mild injection site pain or swelling; serious effects are rare but may include neurological symptoms with overdose.

### **Q5: How should the product be stored?**

A: Store between 15°C and 30°C, protect from light and freezing.

### **Q6: What is the withdrawal period?**

A: Meat withdrawal is about 28 days; milk withdrawal ranges from 3-7 days depending on local rules.

### **Q7: Can this veterinary ivermectin be used in humans?**

A: No. Use only veterinary products as directed and never for human treatment.