

# ENRODOT

## (Enrofloxacin 100mg Injection for Veterinary Use)

### Description

Enrofloxacin is a broad-spectrum fluoroquinolone antibiotic effective against a wide range of Gram-positive and Gram-negative bacteria. It acts by inhibiting bacterial DNA gyrase, leading to disruption of DNA replication and cell death. This formulation ensures high tissue penetration and rapid bactericidal action. Benzyl Alcohol serves as a preservative to maintain sterility and enhance shelf life.

### Specification

- **Active Ingredient:** Enrofloxacin 100mg/mL
- **Preservative:** Benzyl Alcohol I.P. 1.5% v/v
- **Appearance:** Clear, light yellow sterile injectable solution
- **pH Range:** 10.0 – 11.0
- **Sterility:** Sterile and pyrogen-free
- **Packaging:** Sterile amber glass vials, commonly 15 mL, 50 mL, 100 mL

### Composition

- **Enrofloxacin I.P.:** 100 mg per mL
- **Benzyl Alcohol I.P.:** 1.5% v/v (Preservative)
- **Excipients:** Water for injection, stabilizing agents

### Category

- Antibacterial
- Fluoroquinolone antibiotic
- Bactericidal veterinary drug

## Indications

- Treatment of bacterial infections in cattle, buffaloes, sheep, goats, pigs, poultry, and companion animals
- Respiratory infections
- Urinary tract infections
- Gastrointestinal infections
- Septicaemia and wound infections

## Dosage and Administration

- **Dose:**
  - **Cattle & buffaloes:** 2.5–5 mg/kg body weight once daily for 3–5 days
  - **Poultry:** 10 mg/kg body weight via drinking water
  - **Dogs & cats:** 5 mg/kg body weight once daily
- **Route:** Intramuscular (IM) or subcutaneous (SC) injection
- **Frequency:** Once daily or as advised by a veterinarian

## Product Form

- Sterile injectable solution
- Strength: 100 mg/mL Enrofloxacin
- Pack Size: Commonly 15 mL, 50 mL & 100 mL vials

## Usage Instructions

- Use sterile syringe and aseptic technique
- Administer deep IM in large animals
- Shake well before use
- Do not mix with other drugs in the same syringe

## Advantages

- Rapid bactericidal action
- High bioavailability and tissue penetration
- Effective against resistant pathogens
- Low toxicity and well-tolerated in most animals
- Long post-antibiotic effect

## Adverse Effects

- Local irritation at injection site
- Rare allergic reactions
- Gastrointestinal upset in sensitive animals
- Contraindicated in growing animals (risk of cartilage damage)
- Avoid in animals with CNS disorders (may lower seizure threshold)

## Withdrawal Period

- **Meat:** 14 days
- **Milk:** 3 days (72 hours)
- Follow local regulations strictly

## Storage Conditions

- Store below 30°C
- Protect from light and heat
- Do not freeze
- Keep out of reach of children and unauthorized personnel

## Handling Precautions

- Use gloves during administration
- Avoid contact with eyes or skin/ Dispose of empty containers safely
- In case of contact, rinse immediately with water

## **HS and HSN Code**

- **HS Code:** 3004.20 (Antibiotic preparations)
- **HSN Code (India):** 3004.20.99

## **Special Instructions**

- For veterinary use only
- Use only under supervision of a registered veterinarian
- Not for use in animals intended for human consumption unless withdrawal period is observed
- Avoid usage in combination with other fluoroquinolones

## **Details of Human and Veterinary Application**

- **Veterinary Use:** Extensively used in livestock, poultry, and companion animals
- **Human Use:** Enrofloxacin is **not used in humans**; a related compound (Ciprofloxacin) is used instead

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

### **Q1: What is Enrofloxacin?**

A: A broad-spectrum fluoroquinolone antibiotic used in animals for bacterial infections.

### **Q2: What does Benzyl Alcohol do?**

A: It acts as a preservative to maintain sterility and stability of the injection.

### **Q3: How should this drug be given?**

A: By IM or SC injection, as per species and veterinary instructions.

### **Q4: Is it safe for all animals?**

A: Avoid in young, growing animals or those with CNS disorders.

### **Q5: Can it be used in food-producing animals?**

A: Yes, but observe withdrawal periods strictly.

### **Q6: How should it be stored?**

A: Below 30°C, away from light and freezing.