

# DOTCIP-TZ

CIPROFLOXACIN I.P. 1500 MG + TINIDAZOLE I.P. 1800 MG

VETERINARY BOLUS

## DESCRIPTION

This veterinary bolus combines **Ciprofloxacin Hydrochloride I.P. (equivalent to Ciprofloxacin 1500 mg)**, a second-generation fluoroquinolone antibacterial, with **Tinidazole I.P. 1800 mg**, a nitroimidazole-class antimicrobial.

Designed for **oral administration** in large animals, this bolus is intended for treatment of **mixed infections** — particularly those caused by aerobic bacteria, anaerobes, and protozoa — with a focus on gastrointestinal and systemic infections in livestock.

## SPECIFICATION

### **Composition per bolus:**

- Ciprofloxacin Hydrochloride I.P. (eq. to Ciprofloxacin) – 1500 mg
- Tinidazole I.P. – 1800 mg
- Excipients – q.s.

### **Excipients may include:**

Lactose monohydrate, microcrystalline cellulose, starch, magnesium stearate, disintegrants, and coating agents (if applicable), all conforming to Indian Pharmacopoeia (I.P.) or equivalent veterinary quality standards.

### **Dosage Form:**

Solid oral veterinary bolus (intended for ruminants or large animals)

### **Appearance:**

Oblong or oval-shaped bolus; white to off-white in colour; embossed or plain depending on branding.

## CATEGORY

### **Pharmacological Class:**

- Ciprofloxacin: Fluoroquinolone Antibacterial
- Tinidazole: Nitroimidazole Antiprotozoal and Anaerobic Antibacterial

### **Therapeutic Use:**

Broad-spectrum antimicrobial bolus for oral administration in animals

## **INDICATIONS**

Indicated in the treatment of:

- **Gastrointestinal infections** (diarrhoea, dysentery, enteritis) of mixed bacterial and protozoal origin
- **Calf scours, colibacillosis, salmonellosis, amoebiasis**
- **Anaerobic infections** in the intestinal tract and other tissues
- **Protozoal infections** such as **giardiasis, trichomoniasis**
- **Post-surgical or secondary infections** in livestock
- Mixed infections in respiratory, urinary, or reproductive tracts (if systemic coverage appropriate)

## **DOSAGE & ROUTE OF ADMINISTRATION**

### **Route of Administration:**

Oral — via whole bolus administration

### **Recommended Dosage:**

- **1 bolus once daily for 3 to 5 days**, or as directed by the attending veterinarian
- Adjust according to **species, body weight, and clinical condition**

### **Method:**

Administer using a bolus applicator or manually, ensuring full ingestion. Follow with water or feed as needed.

## **ADVANTAGES**

- **Enhanced antimicrobial synergy** with fluoroquinolone + nitroimidazole combination
- Broad-spectrum action against **aerobic, anaerobic, and protozoal pathogens**
- Effective in **mixed gastrointestinal infections**, especially where bacterial and protozoal coinfection is suspected
- **Oral administration** reduces stress and cost versus injectable therapies
- Short-course, high-dose strategy suitable for acute treatment in livestock

## **ADVERSE EFFECTS**

Possible side effects include:

- Mild gastrointestinal disturbances (vomiting, diarrhoea, loss of appetite)
- Rare hypersensitivity reactions (rash, swelling, pruritus)
- Neurological signs in overdose (ataxia, dizziness, head tilt)
- Potential for cartilage toxicity in young animals (fluoroquinolone class risk)
- Changes in gut flora balance; risk of secondary infections with prolonged use

## **PRECAUTIONS**

- **Do not use in animals** known to be allergic to fluoroquinolones or nitroimidazoles
- Use **cautiously in growing animals**; avoid in neonates unless necessary
- Contraindicated in **pregnant or lactating animals** unless under strict veterinary guidance
- Avoid **concurrent use** with drugs that prolong QT interval or known nephrotoxic agents
- **Discontinue immediately** if signs of CNS toxicity or allergic reaction appear

## **WITHDRAWAL PERIOD**

**Meat:** At least **28 days** after last administration

**Milk:** At least **7 days** if used in lactating animals

Always verify with **local veterinary drug regulatory authorities** for official withdrawal periods. Maintain accurate treatment records for compliance.

## **STORAGE CONDITIONS**

- Store in a **cool, dry place**, below **30°C**
- Protect from **light, moisture**, and extreme temperatures
- Keep in **original packaging** until time of use
- Do not use after expiry date printed on label

## **HANDLING INSTRUCTIONS**

- Wear gloves when administering
- Avoid direct contact with broken or crushed bolus
- Wash hands after handling/ Dispose of unused or expired product according to veterinary waste protocols

## **SCHEDULE & REGULATORY CLASSIFICATION**

- **Schedule H (India)** equivalent – Veterinary use only
- **Prescription veterinary drug** – Not for retail sale without a registered veterinary prescription
- Regulated under the **Drugs and Cosmetics Act (India)** or corresponding legislation in the region of use

## **HS & HSN CODES**

- **HS Code (International):** 3004.90 – Medicaments for veterinary use
- **HSN Code (India):** 30049099 – Other veterinary medicaments (not elsewhere specified)

## **HUMAN VS. VETERINARY APPLICATION**

### **Veterinary Use Only**

- Formulated specifically for large animal pharmacokinetics
- Bolus size, excipients, and dosing unsuitable for humans
- **Human use is strictly prohibited**

### **Human Medications Note:**

Though ciprofloxacin and tinidazole are used in humans, this veterinary bolus is **not equivalent** to human tablets or suspensions. Misuse poses serious risks.

## **SPECIAL INSTRUCTIONS**

- Use only under the supervision of a **licensed veterinarian**
- Do not split, crush, or dissolve the bolus — administer whole
- Keep detailed records of administration: date, animal ID, dosage, and withdrawal dates
- Avoid misuse for growth promotion — this is a **therapeutic product only**

## **? FREQUENTLY ASKED QUESTIONS (FAQ)**

### **Q: What does Ciprofloxacin treat in animals?**

**A:** Ciprofloxacin is a **fluoroquinolone antibiotic** used against a wide range of **gram-negative and some gram-positive bacteria**, effective in systemic and gastrointestinal infections.

### **Q: What is Tinidazole's role in this bolus?**

**A:** Tinidazole is an **antiprotozoal and ant anaerobic agent**, ideal for treating intestinal protozoal infections and anaerobic bacterial infections that co-occur in livestock.

### **Q: Can this be used in pregnant animals?**

**A:** Use is **not recommended** unless prescribed by a veterinarian. Risk-benefit must be carefully evaluated.

### **Q: How should I administer the bolus?**

**A:** Insert carefully using a **bolus gun** or manually for large ruminants. Ensure full swallowing. Provide water or feed to assist.

### **Q: Can I use this product in small animals (e.g., dogs, goats)?**

**A:** Only if specifically approved by a veterinarian. This dosage form is **formulated for large animals** and may not be safe or effective in small species.

### **Q: What happens if I miss a dose?**

**A:** Administer the missed dose as soon as possible. Do not double-dose. Maintain a **consistent schedule** for maximum efficacy.

