

DOTNOR-TZ

NORFLOXACIN I.P. 1200 MG + TINIDAZOLE I.P. 1800 MG VETERINARY BOLUS

DESCRIPTION

A broad-spectrum **antimicrobial and antiprotozoal veterinary bolus** combining **Norfloxacin (I.P.) 1200 mg**, a fluoroquinolone antibacterial, with **Tinidazole (I.P.) 1800 mg**, a nitroimidazole-class antiprotozoal and anaerobic antibacterial.

Designed for **oral administration** in large animals, it is indicated for mixed infections involving **aerobic bacteria, anaerobes, and protozoa**, especially in the gastrointestinal tract.

SPECIFICATION

Composition per bolus:

- Norfloxacin I.P. – 1200 mg
- Tinidazole I.P. – 1800 mg
- Excipients – q.s. (quantum satis/as required)

Excipients may include:

Microcrystalline cellulose, starch, lactose, magnesium stearate, disintegrants, and film coating agents (if applicable). All excipients comply with Indian Pharmacopoeia (I.P.) or equivalent veterinary standards.

Dosage Form:

Solid oral bolus — large-size tablet formulated for administration to cattle, buffalo, and other large ruminants.

Colour and Appearance:

Off-white to cream-coloured bolus; smooth finish; debossed or unmarked depending on manufacturer branding.

CATEGORY

Pharmacotherapeutic Classification:

- Antibacterial (Fluoroquinolone class)
- Antiprotozoal and Ant anaerobic (Nitroimidazole class)

Therapeutic Category:

Broad-spectrum antimicrobial for veterinary gastrointestinal infections.

INDICATIONS

Indicated for treatment and control of:

- **Bacterial enteritis and gastroenteritis**
- **Mixed infections** involving both bacteria and protozoa
- **Calf scours**, colibacillosis, salmonellosis
- **Dysentery and amoebiasis** in livestock
- **Anaerobic infections** of the gastrointestinal tract
- **Trichomoniasis and giardiasis** in applicable species

DOSAGE & ROUTE OF ADMINISTRATION

Route: Oral (via direct administration of bolus)

Recommended Dosage:

- 1 bolus daily for **3 to 5 consecutive days** depending on severity and veterinary assessment.
- Adjust based on **species, body weight, and clinical condition.**

Note: Administer using a bolus gun or manually, ensuring safe and complete swallowing.

ADVANTAGES

- Dual-spectrum coverage: targets both **bacterial and protozoal** pathogens
- Highly effective in **mixed gastrointestinal infections**
- Oral route is **non-invasive, convenient**, and ideal for herd treatment
- Reduced frequency of treatment failure due to broad pathogen coverage
- Enhances recovery and reduces animal stress and weight loss during illness

ADVERSE EFFECTS

Possible reactions include:

- Gastrointestinal disturbances: nausea, mild diarrhoea
- Reduced appetite or feed aversion
- Hypersensitivity or allergic reactions (rare)
- Cartilage toxicity in young, growing animals (fluoroquinolone class effect)
- Neurological signs in overdose (ataxia, incoordination)

Always observe animals after dosing. Stop use and consult a veterinarian if adverse effects occur.

PRECAUTIONS

- **Do not use in animals** with known hypersensitivity to fluoroquinolones or nitroimidazoles
- **Not recommended** in pregnant or lactating animals unless advised by a licensed veterinarian
- Use **with caution in growing animals** — norfloxacin may impact joint development
- Avoid **concurrent use** with drugs that interact with quinolones (e.g. NSAIDs or other antimicrobials)
- Maintain hydration during diarrhoea treatment

WITHDRAWAL PERIOD

Meat: Minimum of **28 days** after last dose

Milk: Minimum of **7 days** (if applicable in lactating animals)

Note: Follow **local veterinary regulations** for exact withdrawal periods. Never send animals to slaughter or milk collection before expiry of full withdrawal duration.

STORAGE CONDITIONS

- Store below **30°C** in a **cool, dry place**
- Protect from **direct sunlight and moisture**
- Keep bolus in original strip packaging until use
- Keep out of reach of children and non-target species

HANDLING INSTRUCTIONS

- Wear gloves while administering
- Wash hands thoroughly after handling
- Do not crush or split the bolus
- Dispose of used packaging and expired product as per environmental guidelines

SCHEDULE & REGULATORY CLASSIFICATION

- **Schedule H** equivalent (Veterinary prescription required)
- Not for retail sale without prescription of a registered veterinarian
- Regulated under the Drugs and Cosmetics Act (India) / similar authority

HS & HSN CODES

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

HUMAN VS. VETERINARY APPLICATION

Veterinary Use Only

- Specifically formulated for use in animals
- Excipients and dosage forms tailored to livestock pharmacokinetics
- Human use is **prohibited and unsafe** due to dosing, formulation, and excipient variation

SPECIAL INSTRUCTIONS

- Always administer under veterinary supervision
- Complete the full course of treatment, even if symptoms improve early
- Maintain records of dosage, treatment dates, and withdrawal timelines
- Avoid use as growth promoter or routine prophylaxis — follow **rational use guidelines**

FREQUENTLY ASKED QUESTIONS (FAQ)

Q: What is Norfloxacin and what does it treat?

A: Norfloxacin is a **fluoroquinolone antibiotic** effective against **gram-negative bacteria**, especially in gastrointestinal infections.

Q: What is Tinidazole used for?

A: Tinidazole is an **antiprotozoal and ant anaerobic agent**, used to treat infections like **giardiasis, trichomoniasis, and amoebiasis**.

Q: Can I give this to calves or kids?

A: Caution is advised in **young animals** due to risk of joint issues. Use only if prescribed by a veterinarian.

Q: Can it be used in dairy animals?

A: Yes, but **respect milk withdrawal period** strictly (minimum 7 days or as per label).

Q: What if the animal spits out the bolus?

A: Re-administer carefully, possibly using a **bolus gun**. Ensure full dose is ingested.

Q: Is this bolus safe during pregnancy?

A: Not routinely recommended. Use **only under veterinary guidance** after assessing benefit vs. risk.

Q: Can this be used with other medications?

A: Avoid combining with other antibiotics or NSAIDs unless advised. May interact with certain drugs.