

TETRADOT

Tetracycline Hydrochloride (HCl) I.P. — 100% w/w

Veterinary Oral Powder

Description

Tetracycline Hydrochloride is a **broad-spectrum antibiotic** belonging to the **tetracycline class**. It inhibits bacterial protein synthesis by binding to the 30S ribosomal subunit, making it highly effective against a wide range of Gram-positive and Gram-negative bacteria, mycoplasma, and some rickettsiae. This powder form is intended for **oral administration** through feed or drinking water in poultry and livestock.

Composition

- Tetracycline Hydrochloride I.P. — 100% w/w
- Purified active ingredient with no added excipients (unless specified by manufacturer)
- Appearance: Yellow crystalline powder, odourless or slightly bitter

Category

Veterinary Antibiotic — Tetracycline Class
(Bacteriostatic Antimicrobial Agent)

Specification

- Appearance: Bright yellow, free-flowing crystalline powder
- Identification: Complies with Indian Pharmacopoeia (I.P.) standards
- Assay: 98.0% – 102.0% Tetracycline Hydrochloride (on dry basis)
- pH (1% solution): 2.0 – 3.0
- Solubility: Freely soluble in water
- Loss on drying: Not more than 5.0%
- Shelf Life: 24 months from date of manufacture
- Container: Moisture-resistant, tamper-proof HDPE jar (100 gm)

Indications

Used for the treatment and prevention of bacterial infections in animals, including:

- **Chronic Respiratory Disease (CRD)**
- **Colibacillosis**
- **Salmonellosis**
- **Infectious Coryza**
- **Pneumonia**, enteritis, and other systemic infections
- Effective in poultry, cattle, goats, sheep, swine, and other livestock

Dosage & Route of Administration

- **Poultry:** 1 gm per litre of drinking water for 3–5 days
- **Livestock:** 10–20 mg per kg body weight per day (or as per veterinarian's advice)
- **Route:** Oral — via feed or water
- **Duration:** 3 to 7 days depending on severity and response

Product Form & Packaging Sizes

- **Form:** Veterinary Oral Powder
- **Available Size:** **100 gm**
- **Packaging:** HDPE jar with tamper-evident cap and moisture barrier lining

Usage & Advantages

- Broad-spectrum bacteriostatic action
- High solubility and easy mixing in water or feed
- Well tolerated in most species
- Cost-effective option for mass medication
- Rapid onset of action with visible improvement in 24–48 hours

Adverse Effects

- Mild gastrointestinal upset in rare cases
- Long-term or high-dose use may cause:
 - Hepatotoxicity
 - Disruption of gut flora
 - Tooth discoloration (in young animals)
- Avoid use in growing animals unless recommended by a veterinarian

Withdrawal Period

- **Meat:** 8 days
 - **Milk:** 3 days
 - **Eggs:** 5 days
- Follow withdrawal period strictly to avoid drug residues in food chain.*

Storage

- Store in a cool, dry, and dark place (below 30°C)
- Protect from direct sunlight and humidity
- Keep container tightly closed when not in use

Handling

- Wear gloves and dust mask during mixing
- Avoid inhalation or direct contact with eyes or skin
- Wash hands thoroughly after handling
- Keep away from children and unauthorized personnel

HS Code / HSN Code

- **HS Code:** 2941.30 (Tetracyclines)
- **HSN Code:** 29413010 (Tetracycline and its derivatives — for veterinary use)

Special Instructions

- Do not use in animals with known hypersensitivity to tetracyclines
- Avoid co-administration with dairy products or calcium-rich feed (may reduce absorption)
- Not recommended in pregnant or lactating animals unless advised by a veterinarian
- Rotate with other antibiotics to prevent resistance buildup

Human and Veterinary Application Details

- This product is strictly **for veterinary use only**
- Although Tetracycline is also used in human medicine, **dosage, excipients, and application differ**
- Human consumption or misuse can lead to toxicity or resistance

Frequently Asked Questions (FAQs)

Q: What is Tetracycline HCl used for in animals?

A: It treats respiratory, gastrointestinal, and systemic bacterial infections in poultry and livestock.

Q: Can I mix this directly in water or feed?

A: Yes — it is highly water-soluble and can be used in both drinking water and feed.

Q: How long does it take to show results?

A: Usually within 24–48 hours of treatment, depending on infection severity.

Q: Is it safe for all animal species?

A: Generally safe for poultry, cattle, sheep, goats, and pigs — consult a vet before use in pets or exotics.

Q: What is the withdrawal time for meat and milk?

A: Meat: 8 days, Milk: 3 days, Eggs: 5 days

Q: Can I use this in pregnant or lactating animals?

A: Use only under veterinary advice — tetracyclines can cross placental barrier and may affect fetal development.

Q: Is long-term use recommended?

A: No — prolonged or repeated use can lead to resistance and reduced effectiveness.