OXYDOT - LA

(Oxytetracycline Dihydrate I.P. Injection for Veterinary Use)

📝 Description

Oxytetracycline Dihydrate is a broad-spectrum, bacteriostatic antibiotic belonging to the tetracycline class. It is widely used in veterinary medicine to treat a variety of bacterial infections caused by susceptible Gram-positive and Gram-negative organisms. This injectable formulation contains Oxytetracycline Dihydrate conforming to Indian Pharmacopoeia (I.P.) standards, intended for intramuscular or intravenous administration in animals.

📏 Specification

- **Active Ingredient:** Oxytetracycline Dihydrate I.P.
- **Concentration:** Usually available as 10%, 20%, or 30% w/v injectable solutions (manufacturer-specific)
- **Appearance:** Clear, yellowish to amber sterile injectable solution
- **pH:** Generally, between 2.5 – 4.5
- **Sterility:** Sterile and pyrogen-free
- **Packaging:** Supplied in sterile glass vials or ampoules

🧪 Composition

- Oxytetracycline Dihydrate I.P.: Concentration varies (10-30% w/v)
- Excipients: Sterile water for injection, preservatives, stabilizers (may vary by manufacturer)

🏷️ Category

- Antibiotic
- Tetracycline class
- Veterinary antimicrobial agent

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💊 Indications

- Treatment of infections caused by susceptible strains of bacteria in cattle, sheep, goats, pigs, horses, and poultry
- Respiratory tract infections (e.g., pneumonia, bronchitis)
- Genitourinary infections
- Wound infections and septicaemia
- Foot rot and other bacterial skin infections
- Mastitis in dairy animals (when indicated)

💉 Dosage and Administration

- **Dose:** Typically, 5-10 mg/kg body weight, depending on infection severity and species
- **Route:** Intramuscular (IM) or intravenous (IV) injection; IM preferred for slow absorption
- **Frequency:** Usually every 24 hours; duration depends on clinical response and veterinary advice
- Avoid intravascular injection, if possible, for IM formulations

📦 Product Form

- Sterile injectable solution
- Concentrations: 10%, 20%, or 30% w/v (manufacturer dependent)
- Pack sizes: 30 mL, 50 mL & 100mL vials

⚙️ Usage Instructions

- Use aseptic technique during administration
- Shake well before use
- Use appropriate-sized needles and syringes for dosing
- Dispose of needles and syringes safely after use
- Follow recommended withdrawal periods

🌟 Advantages

- Broad-spectrum activity against many bacterial pathogens/ Cost-effective treatment option
- Effective against both Gram-positive and Gram-negative bacteria
- Long clinical history and proven efficacy/ Suitable for multiple species

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⚠️ Adverse Effects

- Possible local irritation or pain at injection site
- Allergic reactions (rare) including anaphylaxis
- Superinfection due to prolonged use or broad-spectrum activity
- Possible nephrotoxicity and hepatotoxicity in overdose or prolonged use
- Avoid use in animals with known tetracycline hypersensitivity

📅 Withdrawal Period

- **Meat:** Minimum 28 days (species dependent)
- **Milk:** Typically, 72 hours or as per local regulations
- Ensure compliance with local withdrawal guidelines 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 when handling
- Avoid skin contact and inhalation
- In case of accidental exposure, wash affected area immediately
- Dispose of unused product and packaging according to hazardous waste protocols

📦 HS and HSN Code

- **HS Code:** 3004.20 (Antibiotics)
- **HSN Code (India):** 3004.20.10

💊 Special Instructions

- For veterinary use only
- Use strictly as prescribed by a licensed veterinarian
- Do not use in animals with liver or kidney dysfunction without veterinary consultation
- Monitor for signs of adverse reactions during therapy

🐕‍🦺 Details of Human and Veterinary Application

- **Veterinary Use:** Widely used in food-producing and companion animals to treat bacterial infections
- **Human Use:** Human pharmaceutical preparations of oxytetracycline are distinct; veterinary formulations must not be used in humans

❓ Frequently Asked Questions (FAQs)

Q1: What is Oxytetracycline Dihydrate?
A: It is a broad-spectrum tetracycline antibiotic used in animals to treat bacterial infections.

Q2: How is the injection administered?
A: Intramuscular or intravenous injection, with IM being the preferred route.

Q3: What is the usual dose?
A: 5-10 mg/kg body weight once daily, adjusted by veterinary advice.

Q4: Are there side effects?
A: Mild local irritation, allergic reactions, and rarely nephrotoxicity with overdose.

Q5: How should I store the product?
A: Between 15°C and 30°C, protected from light and freezing.

Q6: What is the withdrawal period?
A: Meat: ~28 days; Milk: ~72 hours; follow local regulations.

Q7: Can veterinary Oxytetracycline be used in humans?
A: No, only veterinary-labelled formulations should be used for animals.