DOTCLOR

(Chloramphenicol I.P. 100 mg Injection

Sterile Injectable Antibacterial – Veterinary Use Only)

📝 Description

Chloramphenicol is a broad-spectrum antibiotic with potent bacteriostatic activity. It works by **inhibiting bacterial protein synthesis** at the 50S ribosomal subunit, effective against a wide range of **Gram-positive and Gram-negative bacteria**, including anaerobes. It is especially useful in veterinary medicine where other antibiotics have failed or in mixed infections.

Due to safety concerns in humans, **this product is strictly intended for veterinary use** and is banned in food-producing animals in many regions.

📊 Specification

- **Formulation:** Sterile aqueous solution for injection
- **Active Ingredient:** Chloramphenicol I.P. 100 mg per mL
- **Appearance:** Clear, colourless to pale yellow solution
- **pH Range:** 5.5 – 7.5
- **Sterility:** Complies with pharmacopeial injectable standards
- **Shelf Life:** Typically 2 years when stored properly

🐄 Composition

Each 1 mL contains:

- **Chloramphenicol I.P.**: 100 mg
- **Excipients**:
    - Water for Injection
    - Buffering agents (as required)
    - Stabilizers and preservatives (as per formulation)

🧴 Excipients

- Water for Injection
- Solubilizing/stabilizing agents (e.g., polyethylene glycol, alcohol-based solvents)
- Preservatives (e.g., benzyl alcohol)
- pH adjusters (e.g., sodium hydroxide/hydrochloric acid)

🏷️ Category

- Broad-spectrum antibiotic
- Bacteriostatic agent

💉 Indications

- Treatment of bacterial infections caused by **Chloramphenicol-sensitive organisms**
- Respiratory tract infections
- Gastrointestinal infections
- Septicaemia
- Metritis, mastitis
- Wound infections
- Infectious diseases of unknown origin or mixed ethology

💊 Dosage

Dosage must be based on body weight, severity of infection, and species.

- **Cattle, Horses, Buffaloes**: 10–20 mg/kg body weight, IM or slow IV, once or twice daily
- **Sheep, Goats**: 10–20 mg/kg
- **Dogs, Cats**: 15–25 mg/kg
- **Duration**: Typically 3–5 days or as prescribed by the veterinarian

Note: Intramuscular route preferred. IV must be slow to avoid adverse effects.

Route of Administration

- Intramuscular (IM)
- Intravenous (slow IV)

Product Form

- Sterile injectable solution
- Vials of 30 mL

Usage

Used in a **wide range of veterinary species** for the treatment of infections caused by susceptible bacterial strains, especially when other antibiotics are ineffective or contraindicated.

Advantages

- Broad-spectrum activity (including anaerobes)
- Effective even in severe or systemic infections
- Rapid absorption and distribution
- Useful when culture/sensitivity is pending

Adverse Effects

- Bone marrow suppression (dose-dependent and idiosyncratic)
- Gastrointestinal upset (especially in small animals)
- Hypersensitivity reactions (rare)
- Pain at injection site
- Potential **aplastic anaemia** in humans (reason for restriction in food animals)

Schedule

- **Schedule H** veterinary prescription drug
- Use only under licensed veterinary professional supervision

⚠️ Precautions

- **Strictly prohibited in food-producing animals** due to risk of aplastic anaemia in humans
- Avoid in animals with hepatic dysfunction
- Use with caution in neonates and pregnant animals
- Use only after sensitivity testing where possible
- Wear gloves during handling to avoid accidental exposure

⏳ Withdrawal Period

🚫 NOT TO BE USED IN FOOD-PRODUCING ANIMALS

In jurisdictions where allowed for certain non-food species:

- **Meat**: Minimum 28 days (if allowed)
- **Milk**: Not recommended for lactating animals

🧊 Storage

- Store at **15°C to 25°C**
- Protect from **light and freezing**
- Use contents within specified period after opening

🧹 Handling

- Use sterile syringe and needle
- Do not use if solution is cloudy or contains particulate matter
- Handle with gloves and avoid inhalation or skin contact
- Dispose of unused product and empty containers as per **hazardous pharmaceutical waste protocols**

📦 HS and HSN Codes

- **HS Code:** 30049099
- **HSN Code:** 3004 – Medicaments for therapeutic or prophylactic uses

🛠️ Special Instructions

- **Not to be used in animals intended for human consumption**
- Use under veterinary prescription only
- Do not combine with bactericidal antibiotics (e.g., penicillin's, cephalosporins) due to antagonism
- Regular monitoring is advised during prolonged therapy

👩‍⚕️ Human and Veterinary Application

- **Strictly for veterinary use only**
- Human use is banned or restricted due to severe toxicological risks (e.g., aplastic anaemia)

❓ Frequently Asked Questions (FAQs)

Q1: What is Chloramphenicol used for in veterinary medicine?
It is used to treat a wide range of bacterial infections in animals, especially when other antibiotics fail or are contraindicated.

Q2: Can Chloramphenicol be used in cattle or poultry?
No. It is banned in **food-producing animals** due to the risk of fatal aplastic anaemia in humans from residue exposure.

Q3: What is the mode of action?
It inhibits bacterial protein synthesis by binding to the 50S ribosomal subunit.

Q4: What are the side effects in animals?
Bone marrow suppression, gastrointestinal upset, or allergic reactions.

Q5: Can it be used with other antibiotics?
Avoid combining with bactericidal antibiotics due to antagonistic effects.

Q6: Is withdrawal period applicable?
This drug is not approved for food-producing animals, so it must not be used in them. In non-food animals, withdrawal may vary per region.

Q7: Is it safe for pregnant or young animals?
Use only under veterinary supervision with caution.