

# CYCLODOT

## (Dicyclomine Hydrochloride IP 10 mg Injection Veterinary Use)

### Description

Dicyclomine Hydrochloride IP is a synthetic anticholinergic agent that acts as an antispasmodic by relaxing smooth muscle in the gastrointestinal and genitourinary tracts. It is primarily used to relieve spasms and cramps caused by conditions like colic, enteritis, and other spastic disorders in animals. Benzyl Alcohol IP 4% v/v is used as a preservative to maintain the sterility and stability of the injectable solution.

### Specification

- Appearance: Clear, colourless to pale yellow sterile injectable solution
- Dicyclomine Hydrochloride concentration: 10 mg/mL
- Benzyl Alcohol concentration: 4% v/v (acts as preservative)
- pH: 4.5 – 6.0
- Sterility: Complies with pharmacopeial standards for injectable preparations
- Free from particulate matter
- Shelf life: Typically, 2 years under recommended storage conditions

### Composition

- Dicyclomine Hydrochloride IP: 10 mg per mL
- Benzyl Alcohol IP (Preservative): 4% v/v
- Water for Injection: q.s.

### Excipients

- Water for Injection
- Preservative: Benzyl Alcohol IP 4% v/v
- pH Adjusters (if required): Hydrochloric acid or sodium hydroxide

### Category

Antispasmodic and anticholinergic agent, veterinary injection.

## **Indications**

- Relief of smooth muscle spasms in gastrointestinal tract (colic, enteritis)
- Treatment of spasmodic conditions in genitourinary tract
- Adjunctive therapy in abdominal pain associated with digestive disturbances in animals
- Used to alleviate pain and discomfort caused by spasms in horses, cattle, sheep, goats, and pets

## **Dosage**

- Cattle, horses, buffaloes: 5–10 mL (50–100 mg Dicyclomine HCl)
- Sheep, goats: 1–3 mL
- Dogs, cats: 0.5–2 mL
- Repeat dosage as per veterinary prescription based on severity of spasms

## **Route of Administration**

- Intramuscular (IM) injection
- Subcutaneous (SC) injection (less commonly used)

## **Product Form**

- Sterile injectable solution
- Pack sizes: 30 mL & 100mL

## **Usage**

Used in veterinary practice for management of spasmodic pain, especially in cases of colic and enteric spasms. Provides rapid relief by relaxing smooth muscles and reducing motility.

## **Advantages**

- Effective relief from visceral spasms and cramps
- Rapid onset of action
- Stable sterile formulation with preservative (benzyl alcohol)
- Easy administration via IM or SC routes
- Wide applicability across multiple veterinary species

## **Adverse Effects**

- Possible mild sedation or drowsiness
- Dry mouth and mucous membranes
- Tachycardia (rare) due to anticholinergic effects
- Injection site irritation or swelling (rare)
- Avoid use in animals with glaucoma, tachyarrhythmias, or obstructive uropathies

## **Schedule**

Non-controlled veterinary medicine; availability varies by region (prescription or OTC).

## **Precautions**

- Use aseptic technique during administration
- Avoid use in animals with known hypersensitivity to dicyclomine or benzyl alcohol
- Monitor for signs of anticholinergic toxicity
- Not recommended for use in pregnant animals unless veterinary advice is obtained
- Do not exceed recommended doses

## **Withdrawal Period**

- Meat: Minimum 7 days withdrawal period recommended after last injection
- Milk: 48 hours withdrawal period advised (may vary by regulation)

## **Storage**

- Store below 30°C in a cool, dry place
- Protect from light and freezing
- Keep container tightly closed

## **Handling**

- Use sterile needles and syringes
- Limit vial punctures as per manufacturer guidelines
- Dispose of unused product and containers according to local regulations

## **HS and HSN Codes**

- **HS Code:** 3004909099
- **HSN Code:** 3004 (Medicaments for therapeutic or prophylactic uses)

## **Special Instructions**

- Do not mix with other medications unless compatibility is confirmed
- Use under veterinary supervision only
- Avoid intravenous administration due to potential for adverse reactions

## **Human and Veterinary Application**

- For veterinary use only
- Not intended for human use due to different dosing and formulation

## **Frequently Asked Questions (FAQs)**

### **Q1: What is Dicyclomine Hydrochloride used for in animals?**

It is used as an antispasmodic to relieve smooth muscle spasms and cramps, especially in the gastrointestinal tract.

### **Q2: Why is Benzyl Alcohol included in the injection?**

Benzyl Alcohol acts as a preservative to maintain the sterility and shelf life of the injection.

### **Q3: What is the recommended dosage for cattle?**

Typically, 5–10 mL intramuscularly, depending on the severity of symptoms and veterinary advice.

### **Q4: Are there any side effects?**

Possible sedation, dry mouth, increased heart rate, or injection site irritation.

### **Q5: Can this injection be given intravenously?**

Intravenous use is generally not recommended due to risk of adverse effects.

### **Q6: Is there a withdrawal period for meat or milk?**

Yes, typically 7 days for meat and 48 hours for milk withdrawal period.

### **Q7: Can this be used in pregnant animals?**

Only under strict veterinary guidance.