

# SULPHADOT

## SULPHADIMIDINE I.P. 5.0 GM VETERINARY BOLUS

### DESCRIPTION

**Sulphadimidine I.P. 5.0 g Bolus** is a high-strength **sulphonamide antimicrobial** formulation for use in cattle, buffalo, sheep, and goats.

It acts as a **bacteriostatic agent**, interfering with folic acid synthesis in bacteria, thereby inhibiting their growth and replication.

Primarily used in **systemic bacterial infections**, gastrointestinal and respiratory tract infections, and certain protozoal diseases in livestock.

### SPECIFICATION

#### Composition per bolus:

- **Sulphadimidine I.P.** – 5000 mg (5.0 g)
- **Excipients** – q.s.

#### Excipients may include:

Lactose, maize starch, disintegrants, PVP K30, magnesium stearate, and pharmaceutical binders compliant with veterinary standards.

#### Dosage Form:

Oral solid veterinary bolus

#### Appearance:

Large oblong bolus; white to off-white; may be coated or uncoated depending on manufacturer branding.

### CATEGORY

#### Pharmacological Class:

- Sulphonamide Antimicrobial

#### Therapeutic Class:

- Broad-spectrum antibacterial
- Antiprotozoal (secondary action)

## INDICATIONS

Indicated for the treatment and control of:

- **Bacterial enteritis**, colitis, and dysentery
- **Respiratory tract infections** (pneumonia, bronchitis)
- **Septicaemia** and other systemic bacterial infections
- **E. coli, Salmonella, Pasteurella, and Streptococcus spp.** infections
- Supportive therapy in **coccidiosis** (as part of combination protocols)
- **Urinary tract infections** and **post-surgical prophylaxis**

## PRESENTATION

- **Dosage Form:** Veterinary Oral Bolus
- **Pack Size:** 10 × 4 (40 boluses per box; 4 boluses per strip)
- **Outer Packaging:** Printed laminated cartons with product details
- **Target Species:** Cattle, Buffalo, Sheep, Goats

## DOSAGE & ROUTE OF ADMINISTRATION

**Route:** Oral (via bolus gun or manual administration)

**Recommended Dosage:**

- **Initial dose:** 200 mg/kg body weight on Day 1
- **Maintenance dose:** 100 mg/kg body weight daily for 2–3 days
- In large animals, typically 1 bolus per 100–120 kg body weight, once or twice daily depending on severity and vet's advice

Dosage adjustments may be required based on species, infection severity, and veterinary direction.

## ADVANTAGES

- **Broad-spectrum antimicrobial action** against gram-positive and gram-negative organisms
- Economical and effective for **herd-level infections**
- Can be used alone or in combination with **trimethoprim** for enhanced synergy
- Particularly useful in **enteric and respiratory infections**
- Easy administration with bolus form for field use

## **ADVERSE EFFECTS**

Generally well tolerated, but possible side effects include:

- GI disturbances (diarrhoea, anorexia)
- Crystalluria (ensure adequate hydration)
- Hypersensitivity reactions (rare)
- Potential **bone marrow suppression** with long-term use

## **PRECAUTIONS**

- Ensure **adequate water intake** to prevent sulphonamide crystalluria
- Use with caution in **renal or hepatic impairment**
- Avoid concurrent use with other sulphonamides or nephrotoxic drugs
- Not recommended for animals with known **sulphonamide hypersensitivity**
- Do not exceed treatment beyond **5–7 days** without veterinary oversight

## **WITHDRAWAL PERIOD**

- **Meat:** Minimum **28 days** after last dose
- **Milk:** Minimum **7 days**

Strict adherence to withdrawal periods is essential to avoid drug residues in food products.

## **STORAGE CONDITIONS**

- Store below **30°C**, in a **dry, ventilated area**
- Protect from **direct sunlight, heat, and humidity**
- Keep in original packaging until use
- Keep out of reach of children and unauthorized personnel

## **HANDLING INSTRUCTIONS**

- Use gloves or clean hands during administration
- Administer whole — do not crush or split the bolus
- Wash hands after handling
- Dispose of unused or expired product responsibly

## SCHEDULE & REGULATORY CLASSIFICATION

- **Schedule H** veterinary drug (Prescription-only)
- Regulated under **Drugs and Cosmetics Act, India** or applicable veterinary laws
- Not for sale without a valid veterinary prescription

## HS & HSN CODES

- **HS Code (International):** 3004.90 – Veterinary Medicaments
- **HSN Code (India):** 30049099 – Other medicaments for veterinary use

## HUMAN VS. VETERINARY APPLICATION

### Veterinary Use Only

- Formulation, strength, and pharmacokinetics suited for large animal physiology
- **Not for human use** — risks include improper dosing, hypersensitivity, or toxicity
- Always handle and administer under veterinary supervision

## SPECIAL INSTRUCTIONS

- Administer at the first sign of infection for better results
- Maintain hydration of animals during treatment
- If no improvement is observed within 48 hours, reassess diagnosis and therapy
- May be combined with vitamins, antipyretics, or fluid therapy as supportive care

## FREQUENTLY ASKED QUESTIONS (FAQ)

### **Q: What is Sulphadimidine used for in livestock?**

**A:** It is an **antimicrobial** used to treat **bacterial infections** of the gut, respiratory tract, urinary tract, and blood.

### **Q: How quickly does it work?**

**A:** Typically within **24–48 hours**, animals show improvement. Full course is recommended for complete recovery.

### **Q: Can it be given to lactating animals?**

**A:** Yes, but observe **milk withdrawal of 7 days** post-treatment.

### **Q: Can I use it in combination with other drugs?**

**A:** Yes — it is often combined with **trimethoprim, antipyretics, or supportive therapy**, but only under veterinary supervision.