

NITRODOT

NITROFURAZONE I.P. 60 MG + UREA 6 MG VETERINARY BOLUS

DESCRIPTION

Nitrofurazone + Urea Veterinary Bolus is an antimicrobial and anti-inflammatory formulation indicated primarily for the **treatment of bacterial infections** in livestock.

Nitrofurazone is a nitrofuran-class broad-spectrum antibacterial, while **Urea** acts as a protein-denaturant with mild anti-inflammatory and osmotic diuretic properties.

This combination is especially useful in **metritis, pyometra, wound infections, and systemic bacterial diseases** in large animals.

SPECIFICATION

Composition per bolus:

- **Nitrofurazone I.P.** – 60 mg
- **Urea** – 6 mg
- **Excipients** – q.s.

Excipients may include:

Lactose, maize starch, PVP, magnesium stearate, and other permitted binders and disintegrants suitable for veterinary use.

Dosage Form:

Solid Oral Veterinary Bolus

Appearance:

Small oblong bolus, typically light yellow or tan; uncoated or coated; packed in blister or strip form.

CATEGORY

Pharmacological Class:

- Nitrofurazone: Nitrofuran Antimicrobial
- Urea: Protein denaturant, osmotic adjunct

Therapeutic Class:

- Antibacterial
- Anti-inflammatory (supportive)
- Intrauterine antimicrobial (if prescribed via alternate route)

INDICATIONS

Recommended for the treatment and supportive care of:

- **Uterine infections:** Metritis, Pyometra, Endometritis
- **Post-parturition bacterial contamination**
- **Systemic bacterial infections** (enteric or respiratory)
- **Septic wounds and abscesses** (oral use, not topical)
- **Adjuvant therapy** with systemic antibiotics

PRESENTATION

- **Dosage Form:** Veterinary Oral Bolus
- **Available Pack Sizes:**
 - **10 × 5** (50 boluses per carton; 5 boluses per strip)
 - **2 × 6** (12 boluses per carton; 6 boluses per strip)
- **Outer Carton:** Printed laminated box with usage and storage info
- **Target Species:** Cattle, Buffalo, Sheep, Goats (as advised by veterinarian)

DOSAGE & ROUTE OF ADMINISTRATION

Route: Oral (standard use); also prescribed **intrauterine** by some vets in reproductive disorders

Recommended Dosage (oral use):

- **Cattle/Buffalo:** 2–4 boluses once or twice daily for 2–3 days
- **Small ruminants:** 1–2 boluses daily depending on weight

Veterinarian may adjust dose based on **severity, route, and infection type**

ADVANTAGES

- Effective against a **wide range of gram-positive and gram-negative bacteria**
- **Dual mechanism:** bacteriostatic (Nitrofurazone) + osmotic effect (Urea)
- Useful in **uterine and systemic infections**
- Can be used **with systemic antibiotics** for enhanced efficacy
- Easy to administer in bolus form for field application

ADVERSE EFFECTS

Rare, but may include:

- Mild gastrointestinal upset
- Allergic or hypersensitivity reactions
- Possible local irritation if used intrauterine (veterinary discretion required)
- Potential impact on fertility with chronic or repeated use

PRECAUTIONS

- Use under veterinary supervision only
- Avoid use in **pregnant animals** unless deemed necessary
- **Do not crush or dissolve** for feed or water administration
- Ensure proper **hydration** during treatment
- Not recommended for **long-term** or **prophylactic use**

WITHDRAWAL PERIOD

- **Meat:** Minimum **28 days**
- **Milk:** Minimum **7 days**

Follow withdrawal instructions strictly to avoid residue in food chain.

STORAGE CONDITIONS

- Store below **30°C** in a **cool, dry, and dark place**
- Keep away from **moisture, sunlight, and heat**
- Do not use if packaging is damaged or past expiry
- Keep away from children and non-target species

HANDLING INSTRUCTIONS

- Use disposable gloves during handling and administration
- Avoid contact with eyes and skin
- Do not chew, split, or crush the bolus
- Wash hands thoroughly after use
- Dispose of unused product in accordance with local regulations

SCHEDULE & REGULATORY CLASSIFICATION

- **Schedule H** veterinary preparation (Prescription required)
- Regulated under **Drugs and Cosmetics Act (India)** and local veterinary authorities
- Not for sale or use without veterinary authorization

HS & HSN CODES

- **HS Code (International):** 3004.90 – Medicaments for veterinary use
- **HSN Code (India):** 30049099 – Other medicaments, not elsewhere classified (veterinary use)

HUMAN VS. VETERINARY APPLICATION

Veterinary Use Only

- **Not for human consumption or administration**
- Formulated specifically for animal physiology
- Human exposure may result in toxicity, hypersensitivity, or resistance concerns

SPECIAL INSTRUCTIONS

- May be used alongside **antibiotic therapy**, fluids, or supportive treatment
- In intrauterine uses (by vet only), ensure proper sanitation and technique
- Do not use repeatedly without medical need
- Conduct **veterinary reassessment** if no improvement is seen in 48–72 hours

FREQUENTLY ASKED QUESTIONS (FAQ)

Q: What is Nitrofurazone used for in veterinary medicine?

A: It is a **broad-spectrum antibacterial** used for **uterine infections, wounds**, and other bacterial diseases.

Q: Why is Urea included in this bolus?

A: Urea supports **antibacterial action** through protein denaturation and helps **reduce inflammation** and fluid accumulation.

Q: Can this be used in lactating animals?

A: Yes, but **observe a 7-day milk withdrawal** post-treatment.

Q: Is this bolus for oral or intrauterine use?

A: Primarily for **oral use**, but may be prescribed intrauterine **only by veterinarians** in certain reproductive infections.