

BETADOT

(Betamethasone Sodium Phosphate I.P. 4 mg

Injection Sterile Injectable Solution – Veterinary Use Only)

Description

Betamethasone Sodium Phosphate is a fast-acting, water-soluble synthetic glucocorticoid corticosteroid. It possesses **potent anti-inflammatory, anti-allergic, and immunosuppressive** properties. It is rapidly absorbed following intramuscular or intravenous injection and provides quick relief in various acute and chronic inflammatory conditions affecting animals.

This injection is commonly used in the treatment of allergic reactions, arthritis, musculoskeletal conditions, shock, dermatitis, and respiratory diseases in livestock and companion animals.

Specification

- **Formulation:** Sterile aqueous injectable solution
- **Active ingredient:** Betamethasone Sodium Phosphate I.P. 4 mg per mL
- **Appearance:** Clear, colourless to slightly yellow solution
- **pH:** 7.0 – 8.5
- **Sterility:** Must comply with pharmacopeial standards
- **Shelf Life:** Typically 2 years under controlled storage

Composition

Each 1 mL contains:

- **Betamethasone Sodium Phosphate IP:** 4 mg
- **Excipients:**
 - Water for Injection
 - Buffering agents (e.g., sodium phosphate buffer)
 - Preservatives (e.g., benzyl alcohol, if present, may vary by manufacturer)

Excipients

- Water for Injection
- Buffering agents (to maintain pH)
- Preservatives (if present)
- Sodium chloride (for isotonicity)

Category

- Corticosteroid
- Anti-inflammatory
- Immunosuppressive
- Anti-allergic

Indications

- Acute and chronic inflammatory conditions (arthritis, bursitis, synovitis)
- Allergic conditions (urticaria, dermatitis, insect bites)
- Shock (anaphylactic, traumatic)
- Respiratory conditions (asthma, bronchitis, pneumonia)
- Autoimmune and stress-related conditions in animals
- Parturition induction or fetal lung maturation in special cases (vet-advised)

Dosage

Dosage should be individualized and based on the species, severity, and condition.

Typical guideline doses:

- **Cattle, horses, buffaloes:** 10–20 mL IM or slow IV (equivalent to 40–80 mg)
- **Sheep, goats:** 2–5 mL
- **Dogs, cats:** 0.25–2 mL depending on size and indication
- **Repeat only as per veterinary advice**

Route of Administration

- **Intramuscular (IM)**
- **Intravenous (IV) slow injection**
- **Intra-articular** (for joint inflammation, only by veterinary professionals)

Product Form

- Sterile injectable solution
- Packaging options: 5 mL vial

Usage

Used across **livestock, equines, canines, and felines** for quick resolution of inflammation, pain, and allergic symptoms.

Advantages

- Rapid anti-inflammatory action
- Water-soluble: quick onset and systemic availability
- Versatile: useful in a wide range of veterinary indications
- Reduces edema, swelling, and immune-mediated responses
- Convenient IM/IV administration

Adverse Effects

- Delayed wound healing
- Immunosuppression on prolonged use
- Increased susceptibility to infections
- GI ulceration or irritation (in some species)
- Polyuria, polydipsia, and appetite changes in dogs
- Iatrogenic Cushing's syndrome with chronic overuse
- Hyperglycaemia (especially in diabetic animals)

Schedule

- **Prescription-only veterinary drug (Rx)**
- Must be used under veterinary supervision

Precautions

- Avoid prolonged use or high doses
- Use with caution in animals with diabetes, infections, or peptic ulcers
- Contraindicated in viral infections and fungal diseases unless life-saving
- Not to be used in late pregnancy unless advised by a vet
- Tapering may be needed to avoid adrenal suppression if used long-term

Withdrawal Period

- **Meat:** 28 days
- **Milk:** 7 days
(Always verify per country-specific regulatory authority)

Storage

- Store between **15°C – 30°C**
- Protect from **light and freezing**
- Keep vial tightly sealed and use aseptically

Handling

- Use sterile syringes and needles
- Do not use if solution appears cloudy or contains particles
- Dispose safely as per local veterinary biomedical waste protocols

HS and HSN Codes

- **HS Code:** 3004909099
- **HSN Code:** 3004 (Medicaments consisting of mixed or unmixed products for therapeutic or prophylactic use)

Special Instructions

- Do not mix with other injectables unless compatibility is established
- Observe animal closely after injection, especially during first use
- Veterinary follow-up is essential in chronic cases

Human and Veterinary Application

- **Strictly for veterinary use only**
- Not intended or approved for human use

Frequently Asked Questions (FAQs)

Q1: What is Betamethasone Sodium Phosphate used for in animals?

It is used to treat inflammation, allergic reactions, autoimmune diseases, and shock in veterinary species.

Q2: Is it fast-acting?

Yes, due to its water-solubility, it acts quickly after IM or IV administration.

Q3: Can it be given to pregnant animals?

Only if necessary and under strict veterinary supervision, as corticosteroids may affect pregnancy.

Q4: Are there side effects?

Yes, especially with long-term use—these may include immune suppression, delayed healing, and hormonal imbalance.

Q5: What are the withdrawal periods?

Meat: 28 days | Milk: 7 days (always confirm locally).

Q6: Can this injection be used with antibiotics?

Yes, if prescribed by a veterinarian. It is often co-administered with antibiotics during severe infections and inflammation.

Q7: Is there a risk of adrenal suppression?

Yes, with long-term or high-dose therapy, so dosage tapering is essential when discontinuing after extended use.