

DEXOT

(Dexamethasone Sodium Phosphate I.P. Injection Eqv.to Dexamethasone 4mg)
for Veterinary Use

Description

Dexamethasone Sodium Phosphate is a potent synthetic corticosteroid with anti-inflammatory, immunosuppressive, and anti-allergic properties. It is a water-soluble ester of dexamethasone allowing rapid onset of action after parenteral administration. This injectable formulation contains an equivalent of 4 mg dexamethasone per mL and is widely used in veterinary medicine for the management of inflammatory and autoimmune conditions.

Specification

- **Active Ingredient:** Dexamethasone Sodium Phosphate I.P., equivalent to Dexamethasone 4 mg/mL
- **Appearance:** Clear, colourless, sterile injectable solution
- **pH:** Approximately 7.0 - 8.0
- **Sterility:** Sterile and pyrogen-free
- **Packaging:** Supplied in sterile glass vials or ampoules, commonly 2mL, 5 mL and 30 mL

Composition

- Dexamethasone Sodium Phosphate I.P.: Equivalent to Dexamethasone 4 mg/mL
- Excipients: Sterile water for injection, preservatives (if any, depending on manufacturer)

Category

- Corticosteroid (Glucocorticoid)
- Anti-inflammatory and immunosuppressive veterinary drug

Indications

- Management of inflammatory and allergic conditions in animals
- Treatment of autoimmune diseases and shock
- Adjunct therapy in anaphylaxis and severe allergic reactions
- Reduction of edema and inflammation in musculoskeletal disorders
- Control of various dermatological and respiratory diseases requiring corticosteroid therapy

Dosage and Administration

- **Dose:** Generally, 0.1 to 0.2 mg/kg body weight depending on species and condition
- **Route:** Intramuscular (IM), intravenous (IV), or subcutaneous (SC) injection
- **Frequency:** Single or repeated doses as prescribed by the veterinarian
- Use the lowest effective dose for the shortest duration to minimize side effects

Product Form

- Sterile injectable solution
- Concentration: Equivalent to 4 mg dexamethasone per mL
- Pack sizes: 2mL, 5 mL, 30 mL vials or ampoules

Usage Instructions

- Use aseptic technique when administering
- Shake well before use
- Administer slowly IV to avoid adverse reactions
- Follow veterinary prescription strictly

Advantages

- Rapid and potent anti-inflammatory action
- Effective immunosuppressive agent
- Useful in a wide range of veterinary conditions
- Water-soluble form allows quick onset of action
- Versatile routes of administration

Adverse Effects

- Suppression of adrenal gland function with prolonged use
- Immunosuppression leading to secondary infections
- Gastrointestinal irritation or ulceration
- Polyuria, polydipsia, and behavioural changes
- Avoid abrupt discontinuation after long-term therapy to prevent adrenal insufficiency

Withdrawal Period

- **Meat:** Typically, 7 days or as per local regulatory guidelines
- **Milk:** Minimum 72 hours
- Withdrawal periods must be adhered to strictly in food-producing animals

Storage Conditions

- Store at 15°C to 30°C
- Protect from light and freezing
- Keep out of reach of children and animals
- Use before expiry date

Handling Precautions

- Wear gloves when handling
- Avoid contact with skin and eyes
- In case of accidental exposure, rinse thoroughly with water
- Dispose of unused product and containers safely

HS and HSN Code

- **HS Code:** 2937.29 (Corticosteroids and their derivatives)
- **HSN Code (India):** 2937.29.10

Special Instructions

- For veterinary use only
- Administer under veterinary supervision
- Monitor animals closely for side effects during therapy
- Avoid use in animals with systemic infections unless combined with appropriate antimicrobial therapy

Details of Human and Veterinary Application

- **Veterinary Use:** Used widely to control inflammation, allergies, and immune-mediated diseases in animals
- **Human Use:** Separate formulations exist; veterinary products are not for human use

Frequently Asked Questions (FAQs)

Q1: What is Dexamethasone Sodium Phosphate?

A: A potent synthetic corticosteroid used for anti-inflammatory and immunosuppressive effects.

Q2: How is it administered?

A: Via intramuscular, intravenous, or subcutaneous injection.

Q3: What is the recommended dose?

A: Typically, 0.1 to 0.2 mg/kg body weight, depending on condition and species.

Q4: What are possible side effects?

A: Adrenal suppression, immunosuppression, gastrointestinal upset, increased thirst and urination.

Q5: How should it be stored?

A: Store between 15°C and 30°C, protect from light and freezing.

Q6: What is the withdrawal period?

A: Meat: Approximately 7 days; Milk: Minimum 72 hours (follow local regulations).

Q7: Can this veterinary drug be used in humans?

A: No, veterinary formulations are not intended for human use.