

D-PHOS

(Sodium Acid Phosphate I.P. 40% w/v Injection for Veterinary Use)

Description

Sodium Acid Phosphate is an **acidifying agent** and **buffering electrolyte** used in veterinary medicine to correct metabolic alkalosis and acidosis, maintain acid-base balance, and restore electrolyte levels. It is often administered parenterally to improve animal health in cases of digestive disorders, urinary alkalinity, or metabolic imbalances. The sterile aqueous solution facilitates rapid absorption and systemic effect.

Specification

- **Active Ingredient:** Sodium Acid Phosphate I.P. 40% w/v
- **Appearance:** Clear, colourless to pale yellow sterile solution
- **pH:** 4.0 – 6.0
- **Sterility:** Sterile, pyrogen-free
- **Packaging:** 30 mL / 100 mL glass vials

Composition (Per mL)

- Sodium Acid Phosphate I.P.: 400 mg (40% w/v)
- Water for Injection: q.s.

Category

- Electrolyte solution
- Acidifying agent
- Metabolic corrector

Indications

- Treatment of metabolic alkalosis and acidosis
- Correction of phosphate deficiencies/ Adjunct in parenteral nutrition
- Supportive therapy in digestive and urinary disorders
- Acid-base balance restoration in stressed or debilitated animals

Dosage and Administration

- **Cattle, Buffaloes, Horses:** 10–20 mL IV/IM daily depending on condition
- **Sheep, Goats, Dogs:** 2–5 mL IV/IM daily
- **Route:** Intravenous (IV) or Intramuscular (IM) injection
- **Frequency:** Once daily or as directed by veterinarian

Product Form

- Sterile, aqueous injectable solution
- Packaged in amber or clear glass vials
- Available in multiple vial sizes (commonly 30 mL & 100 mL)

Usage Instructions

- Inspect vial for clarity before use
- Use aseptic technique during administration
- Administer slowly IV to prevent irritation
- Avoid mixing with incompatible drugs

Advantages

- Rapid correction of acid-base imbalance
- Supports metabolic functions and enzyme activity
- Helps replenish phosphate stores efficiently
- Compatible with many veterinary therapeutic protocols

Adverse Effects

- Mild local irritation or pain at injection site
- Rare allergic reactions
- Overdose may cause electrolyte imbalance—monitor carefully

Withdrawal Period

- Follow specific regulatory guidelines based on animal species and use
- Generally, 3–7 days before slaughter (consult veterinarian)

Storage Conditions

- Store at 15°C–30°C
- Protect from light and freezing
- Keep vial tightly closed

Handling Precautions

- Wear gloves during handling
- Use sterile syringes and needles
- Dispose of sharps and vials according to biohazard norms

HS and HSN Code

- **HS Code:** 2835.39 (Phosphates)
- **HSN Code (India):** 2835.39.90

Special Instructions

- For veterinary use only
- Not to be mixed with alkaline solutions or incompatible drugs
- Monitor animal's electrolyte and acid-base status during treatment
- Use under veterinary supervision

Details of Human and Veterinary Application

- **Veterinary Use:** Widely used in livestock and companion animals for metabolic correction
- **Human Use:** Similar compounds used in medicine but this formulation is veterinary-specific

? Frequently Asked Questions (FAQs)

Q1: What conditions does Sodium Acid Phosphate treat?

A: It treats metabolic acidosis/alkalosis and phosphate deficiencies.

Q2: How is this injection administered?

A: By slow intravenous or intramuscular injection under vet supervision.

Q3: Can this be used in all animals?

A: Yes, with species-specific dosing and veterinary guidance.

Q4: What precautions should I take during administration?

A: Use aseptic techniques and monitor animal electrolyte levels.

Q5: Can this be mixed with other drugs?

A: Avoid mixing with alkaline or incompatible drugs in the same syringe.

