

DOTQUINE

Quinupramine Sulphate & Chloride Dry Injection Veterinary Use

Description

Quinupramine Sulphate and Quinupramine Chloride for Injection is a **trypanocidal veterinary preparation** used for the **treatment and prophylaxis of trypanosomiasis** in animals. This combination offers **both curative and preventive** effects due to the dual salt formulation:

- **Quinupramine Sulphate:** Primarily therapeutic (curative)
- **Quinupramine Chloride:** Preventive (prophylactic)

This long-acting formulation is specifically effective against **Trypanosoma evansi** and **Trypanosoma brucei** infections in large domestic animals such as **cattle, buffaloes, camels, horses, donkeys, and dogs**.

It acts by interfering with parasite nucleic acid synthesis and cell metabolism, leading to parasite death.

Specifications

- **Dosage Form:** Sterile lyophilized powder for injection
- **Appearance (Dry):** Pale yellow to white crystalline powder
- **Appearance (Reconstituted):** Clear yellowish solution
- **Solubility:** Completely soluble in provided sterile water
- **pH of Reconstituted Solution:** 6.0 – 7.5
- **Sterility:** Must comply with B.Vet.C. standards
- **Bacterial Endotoxins:** Within specified veterinary pharmacopeial limits
- **Assay:** Each component 95%–105% of labelled claim
- **Container Type:** Type I glass vials with rubber stopper & aluminium seal

Composition

Each 2.5 gm vial contains:

- **Quinupramine Sulphate B.Vet.C.** – 1.5 gm
- **Quinupramine Chloride B.Vet.C.** – 1.0 gm
- **Excipients** – q.s.
- **Sterile Water for Injection** – Supplied separately in the pack (free)

Pharmacological Category

- **Therapeutic Class:** Antiprotozoal / Trypanocidal Agent
- **Mechanism of Action:**
Quinupramine disrupts protozoal DNA synthesis and metabolism, leading to inhibition of parasite replication and eventual death.

Indications (Veterinary Use)

Indicated for **prophylactic and therapeutic** treatment of **Trypanosomiasis** caused by:

- **Trypanosoma evansi** (Surra)
- **Trypanosoma brucei**
- **Trypanosoma equiperdum** (*in some regulatory areas*)

Effective in:

- Horses
- Camels
- Cattle
- Buffaloes
- Donkeys
- Dogs (*in endemic areas*)

Dosage and Route of Administration

Route:

- Subcutaneous (S.C.) injection only

Recommended Dosage:

- **5–10 mg/kg body weight**
- General guide:
 - Large animals (e.g., camels, horses): **2.5 gm per 300–400 kg body weight**
 - Dogs: Dose adjusted proportionally under veterinary supervision

Frequency:

- Single administration provides both treatment and prophylaxis
- Repeat only under veterinary guidance based on regional epidemiology

Reconstitution:

- Dissolve entire content in provided sterile water
- Use immediately after preparation

Dosage Form and Presentation

- **Form:** Sterile dry powder for injection
- **Pack Size:** 2.5 gm (1 vial + 1 sterile water ampoule)
- **Presentation:**
 - Vial with flip-off seal
 - Sterile water ampoule for reconstitution

Key Advantages

- Dual action: both curative and preventive
- Long duration of action against Trypanosoma spp.
- Fast therapeutic response in infected animals
- Effective in multiple species
- Easy single-dose regimen

Adverse Effects

- Local swelling or pain at injection site
- Nervousness or restlessness (transient)
- Hypersensitivity (rare)
- Overdose may lead to **toxicity**, particularly in dogs

Precautions and Contraindications

- **Do not administer intravenously**
- Contraindicated in very young, weak, or debilitated animals
- Do not exceed the recommended dose
- Use with caution in dogs – highly sensitive species
- Avoid repeated or frequent use in non-infected animals
- Follow veterinary prescription strictly

Withdrawal Period

- **Meat:** 28 days after administration
- **Milk:** Not for use in lactating animals producing milk for human consumption unless specified by local regulations

Storage and Handling

- Store in a cool, dry place below 25°C
- Protect from direct sunlight
- Do not freeze
- Use reconstituted solution immediately
- Dispose of unused portion safely

Schedule / Regulatory Classification

- **Veterinary Use Only**
- Prescription-only medicine
- Regulated under **Schedule H (Veterinary)** or equivalent
- Not to be used in animals intended for immediate slaughter unless withdrawal periods are observed

HS Code / HSN Code

- **HS Code (International):** 3004.90 – Other medicaments for veterinary use
- **HSN Code (India):** 3004.90.99 – Veterinary medicines not elsewhere specified

Special Instructions

- Ensure proper diagnosis of Trypanosomiasis before use
- Use aseptic technique for injection
- Do not use in animals showing nervous signs or weakness
- Always use under veterinary supervision
- Avoid using during extreme stress or dehydration

? Frequently Asked Questions (FAQs)

Q1: What is Quinupramine used for?

A: Quinupramine is used for the **treatment and prevention of trypanosomiasis**, a protozoal infection affecting livestock and working animals.

Q2: What's the difference between the Sulphate and Chloride salts?

A: The **Sulphate** form is mainly **therapeutic**, while the **Chloride** form provides **prophylactic** protection — together they provide complete protection.

Q3: Can this be used in lactating animals?

A: It is **not recommended** unless clearly advised by a veterinarian due to potential residues in milk.

Q4: Is this injection safe for dogs?

A: Use with caution. Dogs are more sensitive and should only be treated under strict veterinary guidance with adjusted dosing.

Q5: How long does the protection last?

A: The prophylactic effect can last **several weeks** depending on species and infection pressure in the environment.

Q6: Can I repeat the dose weekly?

A: No. Frequent dosing increases risk of side effects and resistance. Use only as prescribed by a veterinarian.

