

# DOTMIN-S

Oxyclozanide I.P 0.3% w/v + Levamisole Hydrochloride I.P 1.5% w/v + Silymarin 0.4% w/v Oral Suspension For Veterinary Use Only

## Description

This veterinary oral suspension is a **triple-action formulation** combining:

- **Oxyclozanide:** A salicylanilide compound effective against *mature liver flukes*.
- **Levamisole Hydrochloride:** A broad-spectrum anthelmintic for gastrointestinal and pulmonary nematodes.
- **Silymarin:** A hepatoprotective extract from *Silybum marianum* (Milk Thistle), included to **protect and regenerate liver cells** during parasite clearance and toxin breakdown.

This formulation provides **deworming + liver support**, especially suitable in fluke-endemic areas where liver damage is common.

## Specification

- **Composition per mL:**
  - Oxyclozanide I.P — 0.3% w/v (3 mg/mL)
  - Levamisole Hydrochloride I.P — 1.5% w/v (15 mg/mL)
  - Silymarin — 0.4% w/v (4 mg/mL)
  - Excipients — q.s. to 1 mL
- **Appearance:**  
Milky to light brown homogenous suspension. Shake well before use.
- **Formulation Type:**  
Oral liquid suspension
- **pH Range:**  
Maintained between 6.0–7.5
- **Preservatives:**  
IP-approved preservatives may be included for microbial stability
- **Packaging:**  
HDPE bottles with secure, tamper-evident caps
  - Sizes: **90 mL** and **1 Litre**
- **Shelf Life:**  
24 months from date of manufacture (under prescribed storage)

## Pharmacological Category

Anthelmintic and Hepatoprotective — Combination of salicylanilide (Oxyclozanide), imidazothiazole derivative (Levamisole HCl), and plant-based liver support (Silymarin)

## Indications

This product is indicated for the **treatment and control** of:

- **Liver Fluke Infections (Trematodes)**
  - *Fasciola hepatica*, *Fasciola gigantica* (mature stages)
- **Gastrointestinal Roundworms (Nematodes)**
  - *Haemonchus*, *Bunostomum*, *Cooperia*, *Trichostrongylus*, *Oesophagostomum*, etc.
- **Lungworms**
  - *Dictyocaulus viviparus*, *Dictyocaulus filaria*
- **Supportive Liver Protection in:**
  - Heavy parasitic loads
  - Recovery from fluke-induced hepatic stress
  - Liver damage associated with anthelmintic treatments or toxins

## Dosage and Route of Administration

- **Route:** Oral (directly by mouth)
- **Recommended Dosage:**
  - **Cattle & Buffaloes:** 7.5 mL per 50 kg body weight
  - **Sheep & Goats:** 1.5 mL per 10 kg body weight
  - Or as directed by a licensed veterinarian
- **Instructions:**
  - Shake well before use
  - Use calibrated drenching equipment
  - Do not mix with feed or water

## Advantages

- **Triple action:** Dewormer + Liver support
- Controls **flukes, roundworms, and lungworms**
- Protects the liver during parasite detoxification
- Reduces hepatic stress and improves post-treatment recovery
- Especially beneficial in **high-risk liver fluke zones**
- Cost-effective and safe for herd-wide use

## **Adverse Effects**

- Mild salivation, head shaking, or diarrhoea (transient and self-resolving)
- In rare cases, neurotoxicity signs due to overdosage of Levamisole
- Hypersensitivity is rare but possible
- Use with caution in debilitated animals

## **Precautions**

- Use under veterinary supervision only
- Avoid dosing in animals in late pregnancy unless approved
- Do not co-administer with organophosphates or other cholinergic agents
- Ensure accurate body weight measurement to prevent overdose
- Do not use in species not listed
- Keep out of reach of unauthorized personnel and children

## **Withdrawal Period**

- **Meat and Offal:** Minimum **28 days** after the last administration
- **Milk:** Not for use in lactating animals producing milk for human consumption unless withdrawal period is specified by regulatory approval

## **Storage and Handling**

- Store in a cool, dry place below 30 °C
- Protect from direct light and moisture
- Do not freeze
- Shake well before each use
- Keep container tightly sealed after use
- Dispose of empty containers and expired product as per veterinary waste guidelines

## **Regulatory Classification / Schedule**

- Veterinary Prescription Drug/ Not intended for human use
- **Schedule H (India)** or equivalent regulatory classification
- Sale under veterinary prescription only

## **HS Code & HSN Code**

- **HS Code (International): 3004.90** – Medicaments containing two or more active ingredients
- **HSN Code (India): 3004.90.99** – Veterinary Medicaments (Others)

Classification may vary depending on latest export/import regulations. Confirm with relevant authorities before trade operations.

## **Special Instructions**

- Always **shake well** before administering to ensure uniform distribution
- Ensure proper body weight estimation and use correct dose
- Administer only via oral route — do not inject
- Do not repeat doses without veterinary recommendation
- Maintain proper withdrawal periods strictly
- Avoid use in animals under severe stress unless approved

## **Frequently Asked Questions (FAQs)**

**Q: What is the role of Silymarin in this formulation?**

**A:** Silymarin is a hepatoprotective herbal extract from *Milk Thistle*, used to support and regenerate liver tissue. It helps minimize liver damage during deworming treatments, especially fluke infestations.

**Q: Does this product treat immature liver flukes?**

**A:** No. Oxytoclozanide is effective primarily against mature flukes. For immature flukes, a different agent like Triclabendazole may be more appropriate.

**Q: Can this be used in pregnant animals?**

**A:** Caution is advised during late pregnancy. Always consult a veterinarian before administration.

**Q: Is this safe for young calves, lambs, or kids?**

**A:** Use only under the guidance of a veterinarian and after weighing. Adjust dose appropriately.

**Q: How often should this product be given?**

**A:** Typically once per treatment cycle. Repeat only if parasitic load or recurrence is diagnosed.

**Q: Is this effective against tapeworms or protozoa?**

**A:** No. This product does not act against cestodes (tapeworms) or protozoa (like coccidia). Use appropriate agents for those infections.

**Q: What if my animal vomits or spills the dose?**

**A:** Re-administer the full dose only if you are certain the full amount was not ingested. Contact your veterinarian if unsure.