

# PARASITOL-L®

REGISTRATION: Q-0209-074



## Injectable solution.

Anthelmintic.



### FORMULA

Each 100 mL contains:

Levamisole hydrochloride	12 g
Suitable vehicle q.s.	100 mL

### Use in species



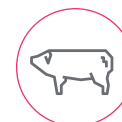
Cattle



Sheep



Goats



Swine

### PHARMACOKINETICS

Levamisole is rapidly and effectively absorbed parenterally. Subcutaneous injection reaches peak plasma levels in 30 minutes and disappears from plasma in 3–4 hours. Extensively metabolized in the liver, excreted mainly via kidneys; ~5% via feces. Less than 5% excreted unchanged in urine and <0.2% in feces.

### PHARMACODYNAMICS

Levamisole causes paralysis through permanent muscle contraction and passive elimination of the parasite. In ascarids, it stimulates the ganglionic nervous structure, producing depolarization inhibition. At high doses, it inhibits fumarate reductase by binding to sulfhydryl (-SH) groups, forming disulfide bridges (-S-S-). This enzyme, part of the Krebs cycle, is essential for transferring reduction equivalents from FADH<sub>2</sub>; its inhibition affects ATP synthesis in the parasite.

### INDICATIONS FOR USE AND TARGET SPECIES

Broad-spectrum anthelmintic for control of larval and adult forms of pulmonary and gastrointestinal parasites in cattle, sheep, goats, and swine.

#### Activity spectrum:

##### Rumiantes:

Gastrointestinal nematodes (adult and larval): *Haemonchus spp.*, *Ostertagia spp.*, *Trichostrongylus spp.*, *Cooperia spp.*, *Nematodirus spp.*, *Oesophagostomum spp.*, *Bonustomum spp.*; *Parafilaria bovicola* (subcutaneous filariasis); *Thelazia spp.*, *Trichuris spp.*, *Ascaris spp.*.

##### Swine:

Gastrointestinal strongylosis (*Strongylus ransomi*).  
Respiratory strongylosis (*Metastrongylus spp.*).  
Ascariasis (*Ascaris suum*)  
*Trichuris spp.*.

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## DOSAGE:

Cattle, swine, sheep, and goats: 1 mL/20 kg (6 mg/kg) for gastrointestinal parasitoses; 1 mL/16 kg (7.5 mg/kg) for pulmonary parasitoses. Single dose. Maximum per injection site: 15 mL.

## ROUTE OF ADMINISTRATION:

Deep intramuscular and subcutaneous. Swine: subcutaneous behind the ear.

## WITHDRAWAL PERIOD:

Milk: not for human consumption or processing until 3 days after last treatment. Meat: do not use within 3 days before slaughter.

## STORAGE CONDITIONS:

Store in a cool, dry place protected from light. Keep out of reach of children.

## WARNINGS:

Do not administer concurrently with organophosphates. Do not administer to horses. Consult a Veterinarian. Sale requires a medical prescription. Veterinary use only.

**For exclusive use by the Veterinarian.**