



## TECHNICAL NOTES



# Troika<sup>®</sup>

## Mineralised Combination Drench for Sheep



### Active Constituents

25 g/L ALBENDAZOLE

40 g/L LEVAMISOLE HCL

1 g/L ABAMECTIN

0.2 mg/mL COBALT

2.1 mg/mL COPPER

0.6 mg/mL ZINC

1 mg/mL IODINE

0.5 mg/mL SELENIUM

### Actions

For the treatment and control in sheep of susceptible gastrointestinal roundworms (including strains with single or dual resistance to macrocyclic lactones, benzimidazoles, levamisole or closantel, and strains of *Haemonchus contortus* with emerging resistance to closantel).

It is also effective against lungworm, tapeworms, adult liver fluke, nasal bot and itch mite. Contains copper, cobalt, zinc, iodine and selenium.

To use TROIKA MINERALISED COMBINATION DRENCH FOR SHEEP in a strategic worm control program, speak to your animal health advisor or veterinarian.

Resistance may develop to any chemical. It is advisable that a resistance test be conducted regularly when using any parasite treatment. Ask your local veterinary practitioner or animal health adviser for recommended parasite management practices for your area to reduce development of resistance.



## Indications

TROIKA MINERALISED COMBINATION DRENCH FOR SHEEP contains abamectin, albendazole and levamisole, which are members of the macrocyclic lactone, benzimidazole and imidazothiazole groups respectively. It also contains iodine, cobalt, copper, zinc and 0.5 mg/mL **selenium**. It is a broad-spectrum oral mineralised anthelmintic which can be used against susceptible gastro-intestinal parasites, and to prevent the introduction of resistant strains on to a property. It is effective against susceptible strains of the following parasites of sheep:

### Adult an immature gastrointestinal roundworms

- Barber's Pole Worm (*Haemonchus contortus*) – including inhibited L4 stages and strains with single or dual resistance to macrocyclic lactones, benzimidazoles, levamisole or closantel, and strains with emerging resistance to closantel.
- Small Brown Stomach Worm (*Teladorsagia (Ostertagia) circumcincta*) – including inhibited L4 stage and strains with single or dual resistance to macrocyclic lactones, benzimidazoles or levamisole.
- Black Scour Worm (*Trichostrongylus colubriformis*) including strains with single or dual resistance to macrocyclic lactones, benzimidazoles or levamisole.
- Stomach Hair Worm (*Trichostrongylus axei*)
- Black Scour Worm (*Trichostrongylus vitrinus*)
- Small Intestinal Worm (*Cooperia* spp.)
- Thin-Necked Intestinal Worm (*Chabertia ovina*)
- Nodule Worm (*Oesophagostomum columbianum*)
- Large Bowel Worm (*Oesophagostomum venulosum*)
- Whip worm (*Trichuris ovis*)
- Intestinal Threadworm (*Strongyloides papillosus*)
- Hookworm (*Bunostomum* spp.)

**Lungworm** – Large lungworm (*Dictyocaulus viviparus*)

**Tapeworms** (*Moniezia* spp.)

**Liver Fluke** (*Fasciola hepatica*) – adults. Reduces the output of viable fluke eggs.

**Itch mite** (*Psorergates ovis*)

**Nasal Bot** (*Oestrus ovis*)

## Precautions

Do not use at the same time as any other selenised fertiliser, prill or product without consulting a veterinarian.

Do not exceed the stated dose, or dose more frequently than 3-weekly.

Caution: In sheep, liver levels of copper may be quite variable. Consequently, there is always a risk of copper poisoning (death) occurring following copper supplementation in this species.



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### Withholding Periods

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

**Meat:** Animals producing meat or offal for human consumption must not be sold for slaughter either during treatment or within 14 days of cessation of the last treatment.

**Milk:** Milk intended for sale for human consumption must be discarded for 35 days following treatment.

### Dosage and Administration

**By law the user must take due care, obtaining expert advice when necessary, to avoid unnecessary pain and distress when using the product other than as directed on the label.**

#### SHAKE WELL BEFORE USE

- Dose: 1 mL per 5 kg bodyweight.
- Administer orally.
- Correct drenching technique should be used.
- Check the accuracy of the drench equipment before and during use.
- A representative sample of animals should be weighed before treatment.
- Dose the mob to the heaviest animal by liveweight in each group (ewes, wethers, rams, lambs). Do not underdose.
- Where there is a large variation in size within the group, dose rate should be based on the label directions for each weight range. Drafting into two or more lines may be appropriate, to avoid excessive overdosing.
- Doses of 3 or more times those recommended can cause symptoms of levamisole toxicity, so estimate liveweights carefully.
- Dehydrated animals may be more susceptible to toxicity.
- Fatal interactions may occur between levamisole and organophosphate dips.

**Dose:** 1 mL per 5 kg bodyweight

DOSE VOLUME TABLE

Liveweight (kg)	Dose (mL)	20L treats
21 - 25	5	4000
26 - 30	6	3333
31 - 35	7	2857
36 - 40	8	2500
41 - 45	9	2222
46 - 50	10	2000
51 - 55	11	1818
56 - 60	12	1666
61 - 65	13	1538
66 - 70	14	1428
71 - 75	15	1333

Sheep in excess of 75 kg to be dosed at 1 mL per 5 kg bodyweight.





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### Safety Directions

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**Warnings:** May be harmful if swallowed. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child and may cause harm to breast-fed children. May cause damage to organs. Very toxic to aquatic life with long lasting effects. Harmful to the soil environment and terrestrial vertebrates. Very toxic to terrestrial invertebrates.

**Handling precautions:** Do not breathe vapours. Avoid contact during pregnancy / while nursing. Wear protective elbow-length gloves and use personal protective equipment as required. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. Avoid release of the product to the environment.

### First Aid

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IF exposed or concerned, if skin irritation or rash occurs or if you feel unwell: Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor immediately. If medical advice is needed, have product container or label at hand. IF SWALLOWED: rinse mouth, DO NOT induce vomiting, IF ON SKIN: wash with plenty of soap and running water.

### Presentation

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Liquid: 20 L

### Storage

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Store below 25°C, locked up, in original container. Do not freeze.

### Classification

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Non-restricted

### Registration Numbers

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ACVM No. A10598

### EPA Approval Number

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HSR100146