



## TECHNICAL NOTES



# Pentamox<sup>®</sup>

## Mineralised Oral Drench for Sheep



### Active Constituents

- 1 g/L MOXIDECTIN
- 1 g/L IODINE (as ethylenediamine dihydroiodide)
- 0.2 g/L COBALT (as disodium cobalt EDTA)
- 2.1 g/L COPPER (as disodium copper EDTA)
- 0.6 g/L ZINC (as disodium zinc EDTA)
- 0.5 g/L SELENIUM (as sodium selenate)

### Actions

PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP contains moxidectin, a second generation macrocyclic lactone endectocide which is effective against internal and external parasites sensitive to this molecular / active substance family. It also aids in the control of selenium-responsive conditions. It can be used to supplement diets which may be deficient in selenium, cobalt, copper, zinc and iodine.

### Indications

PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP is effective against sensitive strains of the following parasites of sheep:

**Mature (adult) and immature (L4):** *Haemonchus contortus* (Barber's Pole Worm), *Trichostrongylus* spp. (Black Scour Worm), *Trichostrongylus axei* (Stomach Hair Worm), *Trichostrongylus colubriformis*, *Ostertagia (Teladorsagia)* spp. (Small Brown Stomach Worm), *Teladorsagia circumcincta*, *Cooperia* spp. (Small Intestinal Worm), *Cooperia oncophora*, *Nematodirus* spp. (Thin-necked Intestinal Worm), *Nematodirus battus*, *Nematodirus filicollis*, *Nematodirus spathiger*, *Strongyloides papillosus* (Intestinal Threadworm), *Oesophagostomum columbianum* (Nodule Worm), *Chabertia ovina* (Large-mouthed Bowel Worm), *Dictyocaulus filaria* (Large Lungworm).

**Adult Nematodes:** *Trichostrongylus rugatus*, *Trichostrongylus vitrinus*, *Cooperia curticei*, *Nematodirus abnormalis*, *Nematodirus helvetianus*, *Ostertagia trifurcata*, *Oesophagostomum venulosum* (Large Bowel Worm), *Trichuris ovis*.

**Ectoparasites:** *Psorergates ovis* (Itch Mite).





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PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP is effective against benzimidazole and levamisole resistant strains of *H. contortus*, *T. colubriformis* and *T. circumcincta*. PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP has shown efficacy against a number of ivermectin resistant strains of *H. contortus* and *Teladorsagia (Ostertagia) spp.*

However, as PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP shares a similar mode of action to the avermectins, it SHOULD NOT be used where ivermectin resistance is present, except where specifically recommended by an advisor.

### RESISTANCE AND WORM CONTROL PROGRAMS

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

### Restraints

DO NOT USE in ewes which are producing, or may in the future produce, milk that may be used or processed for human consumption.

### Contraindications

This product is contraindicated for use unless mineral deficiency is confirmed.

This product is contraindicated for use in animals that are dehydrated or unwell.

**Selenium:** This product should not be used when selenium intake from pasture is high or selenium is provided by other means (such as top dressing, vaccine, pellets or selenium drenches) if blood selenium levels at treatment are high. Users can determine selenium status by consulting their veterinarian.

**Copper:** Excessive copper is toxic. Do not use unless copper deficiency is confirmed.

**Cobalt:** This product is contraindicated for use unless cobalt deficiency is confirmed.

### Precautions

PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP is not recommended for use in goats as safety and efficacy have not been evaluated. Minerals such as copper, cobalt, selenium, iron, manganese and molybdenum compete with each other for metabolically important processes in the animal. Users should seek veterinary advice before treatment.

### Withholding Periods

**MEAT (Sheep):** DO NOT USE less than 5 days before slaughter for human consumption.

**MILK (Sheep):** DO NOT USE in ewes which are producing, or may in the future produce, milk that may be used or processed for human consumption.





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### Trade Advice

**EXPORT SLAUGHTER INTERVAL (ESI):** DO NOT USE less than 7 days before slaughter for export.

The ESI on this label was correct at the time of label approval. Before using this product, confirm the ESI from either Jurox Pty Limited on 1800 023 312 or the APVMA website ([www.apvma.gov.au/residues/](http://www.apvma.gov.au/residues/)).

### Dosage and Administration

PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP is ready to use. Administer 1 mL per 5 kg liveweight using any standard drenching equipment. Check dose rates and equipment before drenching commences.

**Dose rate:** 1 mL / 5 kg liveweight to give 0.2 mg / kg moxidectin, 0.1 mg / kg selenium, 0.04 mg / kg cobalt, 0.42 mg / kg copper, 0.2 mg / kg iodine and 0.12 mg / kg zinc.

#### DOSAGE GUIDE:

#### SHEEP BY ORAL DRENCH: 0.2 mg / kg moxidectin using 1 mL / 5 kg bodyweight.

LIVEWEIGHT	DOSE	10 L TREATS
10 kg	2 mL	5000
11 - 15 kg	3 mL	3333
16 - 20 kg	4 mL	2500
21 - 25 kg	5 mL	2000
26 - 30 kg	6 mL	1666
31 - 35 kg	7 mL	1428
36 - 40 kg	8 mL	1250
41 - 45 kg	9 mL	1111
46 - 50 kg	10 mL	1000
51 - 55 kg	11 mL	909
56 - 60 kg	12 mL	833
61 - 65 kg	13 mL	769
66 - 70 kg	14 mL	714
71 - 75 kg	15 mL	666

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

Animals heavier than 75 kg to be dosed at 1 mL per 5 kg. A representative sample of animals should be weighed before treatment. Dose the mob to the heaviest animal by live weight in each group (ewes, wethers, rams, lambs). Where there is a large variation in size within the group, dose rate should be based on the label directions for each weight range. Do not underdose. Drafting into two or more lines may be appropriate, to avoid excessive overdosing.





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**SELENIUM DEFICIENCY:** To control white muscle disease in lambs, pregnant ewes should be treated monthly before lambing. Lambs should be treated either orally or with a selenium fortified vaccine at marking. On properties where selenium-responsive ill thrift or selenium-responsive scouring have been diagnosed, treat lambs at marking and again 2 months later.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THE LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Do not add copper salts or additional selenium to this drench.

PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP has a wide safety margin when used as recommended and is readily accepted by sheep.

### Safety Directions

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Poisonous if swallowed. May irritate nose and throat. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale. Wash hands after use.

### First Aid

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If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

### GHS Information

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See Safety Data Sheet for GHS Information. For SDS see [www.jurox.com.au](http://www.jurox.com.au).

### Presentation

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Liquid: 10 L drum

### Storage

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Store below 30°C (room temperature), in original container, tightly closed. Protect from light.

### Poisons Schedule

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### Registration Numbers

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APVMA Approval No. 86433

