



TECHNICAL NOTES



Q Drench®

Multi-Combination Drench for Sheep



Active Constituents

Abamectin 1 mg/L
Levamisole hydrochloride 37.5 g/L
Closantel 25 g/L
Abendazole 1.0 g/L

Actions

Contains abamectin, albendazole, closantel and levamisole, which are members of the macrocyclic lactone, benzimidazole, salicylanilide and imidazothiazole groups respectively. Broad spectrum oral anthelmintic which is effective against 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, mature and late immature liver fluke, nasal bot and itch mite.

Resistance may develop to any chemical. Ask a 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.

Indications

Q-Drench Multi-Combination Drench for Sheep contains abamectin, albendazole, closantel and levamisole, which are members of the macrocyclic lactone, benzimidazole, salicylanilide and imidazothiazole groups respectively.

It is a broad-spectrum oral anthelmintic which can be used against susceptible gastrointestinal parasites, and to prevent the introduction of resistant strains on to a property.

For the treatment and control in sheep of sensitive strains of the following parasites of sheep:-



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Adult and immature gastrointestinal roundworms

- Barber's Pole Worm (*Haemonchus contortus*) - including inhibited L4 stage and strains with single, dual or triple 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.
- Large Stomach Worm (*Haemonchus placei*)*
- Stomach Hair Worm (*Trichostrongylus axei*)
- Black Scour Worm (*Trichostrongylus vitrinus*)
- Small Intestinal Worm (*Cooperia* spp.)
- Thin-necked Intestinal Worm (*Nematodirus* spp.)
- Large mouthed Bowel Worm (*Chabertia ovina*)
- Nodule Worm (*Oesophagostomum columbianum*)*
- Large Bowel Worm (*Oesophagostomum venulosum*)
- Whipworm (*Trichuris ovis*)
- Intestinal Threadworm (*Strongyloides papillosus*)
- Hookworm (*Bunostomum* spp.)

Nasal Bot (*Oestrus ovis*)

Lungworm Large Lungworm (*Dictyocaulus viviparus*)

Liver Fluke (*Fasciola hepatica*) - mature fluke and immature forms including 6 week old stages. Reduces the output of viable fluke eggs.

Tapeworms (*Moniezia* spp.)

Itch mite (*Psorergates ovis*)

* These parasites have not been recorded in New Zealand.

Precautions

Do not treat lambs under 15 kg or 4 weeks of age.

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 28 days of cessation of the last treatment.

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



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Dosage and Administration

Shake well before use.

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

For use as a quarantine drench: Treat all animals on arrival, or ideally at farm of origin, and hold in yards for 24 hours before release.

For use in a strategic worm control program: speak to your animal health adviser or veterinarian.

Dosage and administration

- 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.

Administer orally. Check 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.

Dose: 1 mL per 5 kg bodyweight

DOSE VOLUME TABLE

Liveweight	Dose	1L treats	10L treats
21 – 25 kg	5mL	200	2000
26 - 30 kg	6mL	166	1666
31 – 35 kg	7mL	142	1428
36 – 40 kg	8 mL	125	1250
41 – 45 kg	9mL	111	1111
46 – 50kg	10mL	100	1000
51 – 55 kg	11mL	90	909
56 – 60kg	12ml	83	833
61 – 65 kg	13mL	76	769
66 – 70kg	14mL	71	714
71 – 75 kg	15 mL	66	666

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

For use as a quarantine drench, treat all animals on arrival, or ideally at farm of origin, and hold in yards for at least 24 hours before release





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For use in a strategic worm control program, speak to an animal health advisor or veterinarian.

Safety Directions

Warnings: Harmful if swallowed, inhaled or absorbed through the skin. Causes mild skin irritation and serious eye irritation. 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: Avoid contact with the skin and eyes and do not breathe vapours. Wear protective gloves and use personal protective equipment as required. Avoid contact during pregnancy / while nursing. Do not eat, drink or smoke when using this product and wash hands thoroughly after handling. 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. Collect spillage.

First Aid

If exposed or concerned, contact the National Poisons Centre 0800 POISON (0800 764 766) 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 skin or hair contact occurs, remove contaminated clothing and wash with plenty of soap and running water. If splashed in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.

Presentation

Liquid: 1 L, 10 L

Storage

STORE below 30°C, in original container, tightly closed and locked up, away from foodstuffs.

Classification

Non-restricted

Registration Number

ACVM No. A9291

EPA Approval Number

HSR000062