65 | 97 | 67 | 97 | 30

25 | 66 | 256 | 66 | 25

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STARMEC

IVERMECTIN INJECTION FOR CATTLE

WITHHOLDING PERIODS
MEAT: DO NOT USE less than 28 days before slaughter for human consumption.
MILK: DO NOT USE in lactating cows or within 28 days of calving where milk may be used or processed for human consumption.

TRADE ADVICE - EXPORT SLAUGHTER INTERVAL (ESI)
DO NOT USE less than 42 days before slaughter for export. Before using this product, confirm the current ESI from The Hunter River Company on (03) 5821 0922 or the APVMA website (www.apvma.gov.au/residues).

SAFETY DIRECTIONS
Poisonous if swallowed. Avoid contact with eyes, skin and clothing.

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

ADDITIONAL USER SAFETY INFORMATION
Additional information is listed in the safety data sheet.

ENVIRONMENTAL PROTECTION
Ivermectin is extremely toxic to aquatic species. DO NOT contaminate dams, rivers, streams or other waterways with the chemical or used container.

DISPOSAL
Dispose of empty container by wrapping with paper and putting in garbage.

STORAGE
Store below 25°C (air conditioning). Store bottle in carton to protect from light.

APVMA Approval No. 84437/110415

BATCH:

EXP:

May damage fertility or the unborn child.
May cause harm to breast-fed children.
Do not breathe fumes, mists, vapours or spray.
Avoid contact during pregnancy or while nursing.
Wash contacted areas thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use personal protective equipment as required.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

THE HUNTER RIVER CO.

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The Hunter River Company Pty Limited
ACN 133 798 615
74-76 Drummond Road, Shepparton VIC 3630
Ph: (03) 5821 0922
APVMA Approval No. 84437/110415

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
FOR ANIMAL TREATMENT ONLY

STARMEC

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ACTIVE CONSTITUENT: 10 mg/mL IVERMECTIN

STARMEC Ivermectin Injection for Cattle is a low volume dose injectable parasiticide which effectively controls ivermectin-sensitive internal and external parasites of cattle.

For the treatment and control of ivermectin-sensitive internal and external parasites of cattle.

500 mL

STARMEC Ivermectin Injection for Cattle contains ivermectin, a member of the macrocyclic lactone family of chemicals. It is effective against the following:

Gastrointestinal roundworms:

Ostertagia ostertagi
Small brown stomach worm
Adults and L_4 and L_3 immature stages (including inhibited fourth stage larvae).

O. lyrata
Brown stomach worm
Adults and L_4 stage

Haemonchus placei
Barber's pole worm
Adults and L_4 and L_3 immature stages

Trichostrongylus axei
Stomach hair worm
Adults and L_4 immature stages

T. colubriformis
Intestinal hair worm
Adults and L_4 immature stages

Cooperia spp.
Small intestinal worm
Adults and L_4 and L_3 stages

Bunostomum phlebotomum
Hookworm
Adults and L_4 and L_3 immature stages

Oesophagostomum radiatum
Nodule worm
Adults and L_4 and L_3 immature stages

Nematodirus spathiger
Thin necked intestinal worm
Adults

N. helvetianus
Thin necked intestinal worm
Adults

Strongyloides papillosis
Intestinal thread worm
Adults

Toxocara vitulorum
Large roundworm
Adults

Trichuris spp.
Whipworm
Adults

Lungworm:
Dictyocaulus viviparus
Adults and immatures (including inhibited stages)

Eyeworm:
Thelazia spp.
Adults stages

Screw Worm Fly:
Chrysomya bezziana
Effective against early infestations but less effective against established infestations. Sustained efficacy for 14 days against the early larval stages can be achieved if the animals are treated in the very early stages of infestation, or as prevention (not reported in Australia, but present in Papua-New Guinea).

Sucking Lice:
Linognathus vituli
Haematopinus eurysternus
Solenopotes capillatus
Does not provide full control of the cattle biting louse, *Bovicola (Damalinia) bovis*

Mites:
Sarcoptes scabei var. bovis

Cattle tick:
Rhipicephalus (Boophilus) microplus including organophosphate, synthetic pyrethroid and amidine resistant strains

Maximum efficacy is reached 4-5 days after treatment. Engorged female ticks that drop from cattle in the initial days after treatment may lay viable eggs. This should be taken into account when planning a strategic tick control program. STARMEC Ivermectin Injection for Cattle should be alternated with conventional dips or pour-ons when the program requires repeat treatments.

Sustained activity: At the recommended dose rate, STARMEC Ivermectin Injection for Cattle effectively controls infections with *Ostertagia* spp. and *Cooperia* spp. acquired up to 7 days after treatment, and *Dictyocaulus viviparus* and *Chrysomya bezziana* up to 14 days after treatment.

At the recommended dose rate of 200 µg ivermectin/kg liveweight STARMEC Ivermectin Injection for Cattle aids in the control of:

Mites:
Chorioptes bovis

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DIRECTIONS FOR USE

Restraints:
DO NOT USE in lactating cows or within 28 days of calving where milk may be used or processed for human consumption.

Retreatment Interval: DO NOT re-treat less than 42 days after the last treatment.

Contraindications:
This product is contraindicated for use in calves at or less than 4 months of age.

Dosage and Administration:
Use the contents within 24 hours of first broaching of the vial. Discard the unused portion.

The recommended dose is 1 mL STARMEC Ivermectin Injection for Cattle per 50 kg liveweight (equivalent to 200 µg ivermectin per kg liveweight) by subcutaneous injection.

DO NOT administer by the intravenous or intramuscular route.

Liveweight (kg)	Dose Volume (mL)	No. of Cattle
Up to 100	2	250
101-150	3	166
151-200	4	125
201-250	5	100
251-300	6	83
301-350	7	71
351-400	8	62
401-450	9	55
451-500	10	50
501-550	11	45
551-600	12	41
601-650	13	38

Cattle heavier than 650 kg should be dosed at 1 mL per 50 kg. A representative sample of animals should be weighed before treatment either with scales or a weighband. Dose rate to be based on heaviest cattle in each group (bulls, cows, steers, calves etc). DO NOT underdose. Where there is a large variation in size within the group, draft into two or more lines based on bodyweight, to avoid excessive underdosing.

General Directions:
NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

Caution: avoid carcass damage

1. Sterilise all injection apparatus by boiling before use. Disposable plastic syringes should not be boiled. Avoid use of strong disinfectants on apparatus.
2. Maintain cleanliness at all times.
3. Keep needles sharp and clean. Replace frequently.
4. Use 16-G needles, not exceeding 15 mm.
5. As far as possible, avoid injection of animals during wet weather or under dusty conditions. Avoid injection of soiled areas on the animal.
6. This product should be injected only under the skin, i.e. subcutaneously.
7. Inject high on the neck behind the ear. Injection should only be made under the loose skin in an area away from the more valuable carcase muscle. Loose skin on the neck in front of the shoulder is also a suitable site.

Note to user
Transitory discomfort has been observed in some cattle following subcutaneous administration. A low incidence of soft-tissue swelling at the site of injection has been observed. These reactions have disappeared without treatment.

Resistance
Resistance can develop to any anthelmintic. Treatments with STARMEC Ivermectin Injection for Cattle should generally be timed to use its antiparasitic properties to prevent the development or build up of parasitic infections. For detailed advice and information on a program for parasite control in cattle, consult your veterinarian.

Product Description
STARMEC Ivermectin Injection for Cattle is a sterile, ready-to-use solution of ivermectin. Ivermectin is a semi-synthetic macrocyclic lactone derived from the parent compound, avermectin B1. Avermectin B1 is a microbial metabolite of the soil organism, Streptomyces avermitilis. Ivermectin is an 80:20 mixture of 22,23-dihydroavermectin B1a and B1b. STARMEC Ivermectin Injection for Cattle is formulated to provide the recommended dose rate of 200 µg/kg liveweight. The product is to be given subcutaneously at the rate of 1 mg / 50 kg.

Mode of Action
Ivermectin increases the release of γ-amino butyric acid (GABA) and opens chloride channels resulting in interference with neurotransmission leading to parasite paralysis and eventual death. Ivermectin is particularly active and useful for controlling gastrointestinal roundworm, lungworm, mange mite, cattle tick and lice infections of cattle. Ivermectin has a long intrinsic half-life which provides excellent residual protection against parasitic reinfestation for a varying period depending on the target parasite and the pharmaceutical nature of the ivermectin formulation.

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