

**For animal use only**

**DECTOMAX®**

**Reg. No: G1726 Act 36/1947 RSA**

**Namibia: N-SR 0657**

**Zimbabwe Only: 98/80.12.10/9483 HR(Vet)**

**A long acting 1 % Injectable Solution for Cattle, Sheep, Goats and Swine**

### **PRODUCT CHARACTERISTICS**

**DECTOMAX®** is a long-acting, injectable, broad-spectrum parasiticide for cattle, sheep, goats and swine. One low-volume injection effectively controls a wide range of roundworm of cattle, sheep, goats and pigs as well as arthropod parasites of cattle, sheep, and pigs, which impair their health and productivity. **DECTOMAX®** injectable solution is well-tolerated, has excellent syringeability and has a long action, making it particularly suitable for controlling parasites in cattle, sheep, goats and swine.

### **STORAGE CONDITIONS**

Store below 30 ° C.

Protect contents from light.

### **COMPOSITION**

Doramectin 1% m/v

### **PRODUCT DESCRIPTION**

**DECTOMAX®** injectable solution contains doramectin, an avermectin discovered by Pfizer. Doramectin is a novel, fermentation-derived product of avermectin class of highly active, broad-spectrum antiparasitic agents. Doramectin is isolated from fermentations of a genetically altered strain of *Streptomyces avermitilis*.

**DECTOMAX®** is a ready-to-use, pale yellow, sterile solution containing 1 % (10 mg/ml) doramectin. It is formulated to deliver the recommended dosage for cattle, sheep and goats (200 µg/kg body mass) when given by either intramuscular or subcutaneous injection at the rate of 1 ml/50 kg body mass and for swine (300 µg/kg body mass) when given by intramuscular injection at the rate of 1 ml/33 kg body mass.

### **MODE OF ACTION**

The primary mode of action for avermectins, the family of compounds to which doramectin belongs, is to modulate chloride ion channel activity in the nervous system of nematodes and arthropods. Avermectins bind to receptors that increase membrane permeability to chloride ions. This inhibits the electrical activity of nerve cells in nematodes and muscle cells in arthropods, and causes paralysis and death of the parasites. In mammals the neuronal receptors to which avermectins bind are localised within the central nervous system. Since doramectin does not readily penetrate the mammalian CNS it has a wide margin of safety in animals when used as recommended.

### **WARNINGS**

#### **CATTLE**

Animals may not be slaughtered for human consumption within 35 days of treatment.

Do not use in cattle producing milk for human consumption.

#### **SHEEP AND GOATS**

Animals may not be slaughtered for human consumption within 35 days of treatment.

#### **SWINE**

Animals may not be slaughtered for human consumption within 28 days of treatment.

Keep out of reach of children and uninformed persons. Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder.

## PRECAUTIONS

Sheep and goats should be vaccinated against pulpy kidney (enterotoxaemia) before treatment. Vaccination of cattle, sheep and goats against broad spectrum Clostridium infections (e.g. black quarter, malignant edema) is strongly recommended.

## INDICATIONS

### CATTLE

**DECTOMAX®** is a long-acting injectable solution indicated for the treatment and control of the following: gastro intestinal roundworms, parafilaria, screwworms, sucking lice, mange mites and single host ticks in cattle.

### EFFICACY:

This list contains the more important endoparasite species. This anthelmintic may also be effective against other species. For more information consult your veterinarian.

### 1. CATTLE ROUNDWORMS

CATTLE ROUNDWORMS	IMMATURES	ADULTS	PROTECTION PERIOD (DAYS)
Wireworm ( <i>Haemonchus placei</i> )	*	*	21
Brown stomachworm ( <i>Ostertagia ostertagi</i> )	*	*	21
Cattle bankruptworm ( <i>Cooperia</i> spp)	*	*	14
Hookworm ( <i>Bunostomum phlebotomum</i> )	*	*	-
Nodular worm ( <i>Oesophagostomum radiatum</i> )	*	*	21
<i>Parafilaria bovicola</i> (False bruising)	Effective <sup>H</sup>		

**Definition:** \*Control (≥ 90 % effective)

H An interval of 70 days must elapse after treatment to allow lesions to heal.

## 2. CATTLE ECTOPARASITES

PARASITE	PROTECTION (DAYS)	TREATMENT RECOMMENDATION
<b>CATTLE SCREWORM</b> <i>Chrysomyia bezziana</i>	35	<b>DECTOMAX®</b> kills cattle screwworms present at the time of injection and protects cattle against screwworm strikes for 35 days.
<b>BLUE TICKS</b> <i>Boophilus decoloratus</i>	14	<b>DECTOMAX®</b> controls Blue Ticks and prevents reinfection for 2 weeks. To control Blue Ticks treatment must be repeated every 5 weeks.
<b>SAND TAMPANS</b> <i>Ornithodoros savignyi</i>	35	A single injection of <b>DECTOMAX®</b> will kill Sand Tampans for 5 weeks.
<b>SUCKING (BLUE) LICE</b> <i>Haematopinus eurysternus</i> <i>Linognathus vituli</i> <i>Solenopotes capillatus</i>	-	A single injection of <b>DECTOMAX®</b> kills sucking (blue) lice
<b>MANGE MITES</b> <i>Sarcoptes scabiei</i> <i>Psoroptes bovis</i>	-	A single injection of <b>DECTOMAX®</b> kills mange mites

## SHEEP AND GOATS

**DECTOMAX®** injectable solution is indicated for the treatment and control of the following parasites of sheep and goat at each of the recommended dosages:

### EFFICACY:

This list contains the more important endoparasite species. This anthelmintic may also be effective against other species. For more information consult your veterinarian.

#### 1) SHEEP AND GOAT ROUNDWORMS

a) 1 ml/ 50 kg (200 µg/kg)

ROUNDWORMS	IMMATURES	ADULTS
Wireworm ( <i>Haemonchus contortus</i> )	*	*
Bankruptworm ( <i>Trichostrongylus colubriformis</i> )	*	*
Long-necked bankruptworm ( <i>Nematodirus spathiger</i> )	**	**
Brown stomachworm ( <i>Teladorsagia circumcincta</i> )	*	*
Nodular worm ( <i>Oesophagostomum columbianum</i> )	*	*
Hookworm ( <i>Gaigeria pachyscelis</i> )	*	*
Largemouth bowelworm ( <i>Chabertia ovina</i> )	*	*
White bankruptworm ( <i>Strongyloides papillosus</i> )	*	*
Lungworm ( <i>Dictyocaulus filaria</i> )	*	*

**Definition:** \*Control (≥ 90 % effective)

\*\* Aid in control (60 – 89 % effective)

#### 2) SHEEP ECTOPARASITES

a) 1,0 ml/ 50 kg (200 µg/kg)

PARACITE	TREATMENT RECOMMENDATION
<b>SHEEP SCAB</b> <i>Psoroptes communis ovis</i>	<b>DECTOMAX®</b> kills sheep scab mites and controls an outbreak with two injections given at an interval of 7 days.
<b>NASAL WORM</b> <i>Oestrus ovis</i>	<b>DECTOMAX®</b> controls all stages of nasal worm.
<b>BLOWFLY STRIKE</b> <i>Lucilia cuprina</i>	<b>DECTOMAX®</b> aids in control of blowfly strike.
<b>ITCH MITE</b> <i>Psorergates ovis</i>	<b>DECTOMAX®</b> controls itch mite infestations in sheep.

#### PARASITE TREATMENT RECOMMENDATION

b) 1,5 ml/ 50 kg (300 µg/kg)

PARACITE	TREATMENT RECOMMENDATION
<b>SHEEP SCAB</b> <i>Psoroptes communis ovis</i>	<b>DECTOMAX®</b> kills sheep scab mites and controls an outbreak with two injections given at an interval of 7 days.
<b>NASAL WORM</b> <i>Oestrus ovis</i>	<b>DECTOMAX®</b> controls all stages of nasal worm.
<b>BLOWFLY STRIKE</b> <i>Lucilia cuprina</i>	<b>DECTOMAX®</b> aids in control of blowfly strike.
<b>ITCH MITE</b> <i>Psorergates ovis</i>	<b>DECTOMAX®</b> controls itch mite infestations in sheep.

**NOTE:** When treating an outbreak of sheep scab it is essential that:

- a) All sheep on the farm must be accurately treated with the correct dose and marked after treatment.
- b) All animals must be checked 7 - 10 days after treatment and any animals not marked must be treated.
- c) Care must be taken that the full dose is administered to each sheep.

## SWINE

**DECTOMAX®** injectable solution controls roundworms (*Ascaris suum*, *Oesophagostomum dentatum*, *Oesophagostomum quadrispinulatum* and *Trichuris suis*) and lung worms (*Metastrongylus* spp). It also kills sarcoptic mange mites and lice on pigs.

## DOSAGE

### CATTLE

Administer **DECTOMAX®** injectable solution at a dosage rate of 200 µg doramectin/kg (1 ml/50 kg body mass). For easy reference, see table below:

MASS (kg)	DOSAGE (ml)	MASS (kg)	DOSAGE (ml)
50	1	251 – 300	6
51 – 100	2	301 – 350	7
101 – 150	3	351 – 400	8
151 – 200	4	401 – 450	9
201 - 250	5	451 - 500	10

### SHEEP AND GOATS

Administer **DECTOMAX®** injectable solution at a dosage rate of 200 µg/kg doramectin (1 ml/50 kg) body mass or for sheep only 300 µg/kg doramectin (1,5 ml/50 kg) body mass. For easy reference, see table below.

MASS (kg)	DOSAGE (ml) AT 1 ml / 50 kg	MASS (kg)	DOSAGE (ml) AT 1,5 ml / 50 kg
25	0,5	25	0,75
26 - 50	1	25 – 50	1,5
51 – 75	1,5	50 – 75	2,25
75 – 100	2	75 - 100	3

## SWINE

Administer **DECTOMAX®** injectable solution at a dosage rate of 300 µg doramectin/kg (1 ml/33 kg) body mass. For easy reference, see table below.

MASS (kg)	DOSAGE (ml)	MASS (kg)	DOSAGE (ml)
33	1	201 – 233	7
34 – 67	2	234 – 267	8
68 – 100	3	268 – 300	9
101 – 133	4	301 – 333	10
134 – 167	5	334 – 367	11
168 - 200	6	368 - 400	12

## ADMINISTRATION

### CATTLE

**DECTOMAX®** injectable solution can be administered by the intramuscular or subcutaneous routes. Inject the product under soft skin in the neck or shoulder region or into the neck muscles. Administer product with a clean, dry 16 gauge needle of 15-20 mm length. Use sterile equipment and follow aseptic procedures.

**SHEEP AND GOATS:**

Administer **DECTOMAX®** injectable solution by the intramuscular or subcutaneous route. Inject the product under soft skin in the neck or shoulder region or into the neck muscles. Use a dry sterile 16 to 18 gauge needle, 15 mm in length.

**SWINE**

Administer **DECTOMAX®** injectable solution by the intramuscular route. Animals should be restrained to ensure that treatment can be properly administered. Inject in the neck region using clean, dry, 18 to 20 gauge needle, 35 mm in length. When the temperature of the formulation is below 5 °C the product becomes viscous and injecting it may become difficult. Warming the product and injection equipment to 15 °C will greatly improve syringeability. Use clean, dry equipment for administration.

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**PACKAGE INFORMATION**

**DECTOMAX®** injectable solution is available in multiple dose vials: 20, 50, 200 and 500 ml.

**REGISTRATION HOLDER:**

Pfizer Laboratories (Pty) Ltd

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