

FOR ANIMAL USE ONLY

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SOLUTION® 3,5% L.A.

Reg. No. G3689 (Act 36/1947)

Namibia Reg. No. V06/18.1.2/651 NS0

INDICATIONS

An antiparasitic remedy for cattle and sheep.

COMPOSITION

Contains ivermectin* 2,25 % *m/v* and abamectin* 1,25 % *m/v*.

* Macrocylic Lactone

CAUTION

STORAGE

- Store in a cool, dry place at or below 25 °C.
- Protect from exposure to direct sunlight and moisture.

WARNINGS

- **Withdrawal period:** Cattle must not be slaughtered for human consumption within 120 days of last treatment.
Sheep must not be slaughtered for human consumption within 70 days of last treatment.
- Do not use in dairy cattle.
- Do not administer to calves less than 16 weeks of age.
- Can safely be used in lambs weighing 10 kg or more.
- Do not administer intravenously or intramuscularly.
- Dispose of empty containers according to local waste disposal regulations and do not reuse for any other purpose.
- KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- 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

- Vaccination of cattle against *Clostridium* infections (e.g. black quarter) prior to the treatment with **Solution® 3,5% L.A.** is recommended.
- Sheep should be vaccinated against pulpy kidney (enterotoxemia) before treatment.
- Do not smoke or eat while handling the product.
- Wash hands after use.
- Store bottle in carton to protect from light.

N.B.: Transitory discomfort has been observed in some animals following subcutaneous administration. A low incidence of soft tissue swelling may be observed at the injection site. These reactions are normal and usually resolve without treatment. Consult your veterinarian if swelling persists.

ENVIRONMENTAL SAFETY

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Drug containers and any residual content should be disposed of safely in accordance with local waste disposal regulations as free ivermectin may adversely affect fish and certain waterborne organisms.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

Solution® 3,5% L.A. should be given subcutaneously as a single dose at the recommended dosage level of 1 ml per 50 kg body mass (450 µg ivermectin per kg body mass and 250 µg abamectin per kg body mass).

Use sterile equipment and follow aseptic procedures. Do not dilute or mix with any other product.

Use a sterile needle for each animal to be injected.

Dosage table:

Mass	Dose volume
50 kg	1 ml
51 - 100 kg	2 ml
101 - 150 kg	3 ml
151 - 200 kg	4 ml
201 - 250 kg	5 ml
251 - 300 kg	6 ml
301 - 350 kg	7 ml
351 - 400 kg	8 ml
401 - 450 kg	9 ml
451 - 500 kg	10 ml
501 - 550 kg	11 ml
551 - 600 kg	12 ml

EFFICACY

Roundworm species

Cattle			
Gastrointestinal nematode species	Immature	Adult	Residual activity #
Wireworm <i>(Haemonchus placei)</i>	*	*	49 days
Brown stomach worm <i>(Ostertagia ostertagi)</i>	*	*	56 days
Cattle bankrupt worm <i>(Cooperia spp.)</i>	*	*	42 days
Hookworm <i>(Bunostomum phlebotomum)</i>	*	*	56 days
Nodular worm <i>(Oesophagostomum radiatum)</i>	*	*	56 days
Lung nematode species			
Lungworm <i>(Dictyocaulus viviparus)</i>	*	*	-

Sheep		
Gastro-intestinal nematode species	Immature	Adult
Wireworm <i>Haemonchus contortus</i>	*	*
Bankrupt worms <i>Trichostrongylus colubriformis</i> <i>Nematodirus spathiger</i> <i>Strongyloides papillosus</i> <i>Trichostrongylus vitrines</i>	*	*
Brown stomach worm <i>Teladorsagia circumcincta</i>	*	*

* Controls (> 90 % effective)

Period between treatment and reinfestation

Tick species

Cattle	Controls and prevents reinfestation for
Blue ticks (<i>Boophilus</i> spp.)	54 days *

* (> 90 % effective)

Ectoparasitic mite species

**Sheep	Kills and prevents reinfestation for
Sheep scab mites (<i>Psoroptes communis ovis</i>)	56 days

Kills sheep scab mites and controls an outbreak with a single injection.

Sheep scab is a notifiable disease, contact the State Veterinarian.

** All sheep that are injected must be marked to ensure all sheep have been injected.

PRESENTATION

50 ml, 500 ml and 1 000 ml vials.

The vials are natural polyethylene vials for injection closed with cylindrical bromobutyl rubber stoppers held in place with aluminium flip-off seals packaged in a carton outer container or amber glass vials with a bromobutyl rubber stopper held in place with an aluminium flip-off seal, fitted in a polyethylene cover and packaged in a carton outer container

REGISTRATION HOLDER

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MANUFACTURER

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DATE OF PUBLICATION OF PACKAGE INSERT

24 April 2018

SLEGS VIR DIEREGBRUIK

SOLUTION® 3,5% L.A.

Reg. Nr. G3689 (Wet 36/1947)

Namibië Reg. Nr. V06/18.1.2/651 NS0

①*

INDIKASIES

'n Antiparasitiese middel vir beeste en skape.

SAMESTELLING

Bevat ivermektien* 2,25 % *m/v* en abamektien* 1,25 % *m/v*.

* Makrosikliese laktoon

VERSIGTIG

BERGING

- Berg in 'n koel, droë plek teen of benede 25 °C.
- Beskerm teen direkte sonlig en blootstelling aan vog.

WAARSKUWINGS

- **Onttrekkingsperiode:** Beeste moet nie binne 120 dae na behandeling, vir menslike gebruik geslag word nie.
Skape moet nie binne 70 dae na behandeling, vir menslike gebruik geslag word nie.
- Moet nie in melkbeeste gebruik nie.
- Moet nie aan kalwers jonger as 16 weke toedien nie.
- Dit is veilig om aan lammers wat 10 kg of meer weeg, toe te dien.
- Moet nie binnears of binnespiers toedien nie.
- Doen weg met leë houers volgens plaaslike afvalbestuursregulasies en moenie hergebruik vir enige ander doeleindes nie.
- HOU BUIE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit faal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer.

VOORSORGMAATREËLS

- Inenting van beeste teen Klostridiale-infeksies (bv. sponssiekte) word aanbeveel voor behandeling met **Solution® 3,5% L.A.**
- Skape behoort teen bloednier (enterotoksemie) geënt te word voor behandeling.
- Moet nie rook of eet tydens die hantering van hierdie produk nie.
- Was hande na gebruik van die produk.
- Moet nie leë bottels hergebruik nie.
- Bewaar bottels in 'n kartonhouer om dit teen lig te beskerm.

L.W.: Verbygaande ongemak en lae voorkoms van sagteweefselswelling is al by die inspuittingsplek opgemerk. Hierdie simptome is normaal en verdwyn gewoonlik sonder behandeling. Raadpleeg u veearts indien die swelling nie verdwyn nie.

OMGEWINGSVEILIGHEID

Studies toon dat wanneer ivermektien met grond in aanraking kom, dit geredelik en dig met die grond bind en met verloop van tyd onaktief raak. Doen weg met leë houers volgens plaaslike afvalbestuursregulasies. Waak teen besoedeling van waterbronne omdat vrye ivermektien skadelik vir visse en waterorganismes kan wees.

GEBRUIKSAANWYSINGS - GEBRUIK SLEGS SOOS AANGEDUI

Solution® 3,5% L.A. moet as 'n enkeldosis, onderhuids toegedien word, teen die aanbevole dosis van 1 ml per 50 kg liggaamsmassa (450 µg ivermektien per kg liggaamsmassa en 250 µg abamektien per kg liggaamsmassa).

Gebruik steriele toerusting en volg normale aseptiese prosedures. Moet nie verdun of met enige ander stof meng nie.

Gebruik 'n steriele naald vir elke dier wat ingespuit moet word.

Doseringstabel:

Massa	Doseringsvolume
50 kg	1 ml
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DOELTREFFENDHEID

Rondewurmspesies

Beeste			
Gastro-intestinale rondewurmspesies	Onvolwasse	Volwasse	Nawerking [#]
Haarwurm (<i>Haemonchus placei</i>)	*	*	49 dae
Bruinmaagwurm (<i>Ostertagia ostertagi</i>)	*	*	56 dae
Beesbankrotwurm (<i>Cooperia</i> spp.)	*	*	42 dae
Haakwurm (<i>Bunostomum phlebotomum</i>)	*	*	56 dae
Knoppieswurm (<i>Oesophagostomum radiatum</i>)	*	*	56 dae
Long rondewurmspesies			
Longwurm (<i>Dictyocaulus viviparus</i>)	*	*	-

Skape		
	Onvolwasse	Volwasse
Haarwurm (<i>Haemonchus contortus</i>)	*	*
Bankrotwurm (<i>Trichostrongylus colubriformis</i>)	*	*

* Beheer (> 90 % effektief)

Tydperk tussen behandeling en herinfestasië

Bosluisspesies

Beeste	Beheer en voorkom herinfestasië vir
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Bloubosluisse (<i>Boophilus spp.</i>)	54 dae *
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* (> 90 % effektief)

Ektoparasitiese mytspesies

**Skape	Dood en voorkom herinfeksie vir
Skaapbrandsiektemyte (<i>Psoroptes communis ovis</i>)	56 dae

Dood skaapbrandsiektemyte en beheer 'n uitbraak met 'n enkele inspuiting.

Skaapbrandsiekte is 'n aanmeldbare toestand, kontak u Staatsveearts.

** Elke skaap moet gemerk word om seker te maak dat alle skape ingespuut word.

AANBIEDING

50 ml en 500 ml flessies.

Amber gekleurde glasflessies met 'n bromobutielrubberstopper wat in plek gehou word met aluminium verseelde proppe, toegerus in 'n poliëtileenhouer en verpak in 'n kartonboks.

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