

HEALTH PLAN FOR SHEEP FOR IMPROVED PRODUCTION AND REPRODUCTION

Virbac RSA (Pty) Ltd (Reg. No. 1990/003743/07) Private Bag X115, Halfway House 1685, South Africa. Tel: (012) 657-6000

Calledia

Shafing the future of animal health



Health plan for lambs ...

BETTER MANAGEMENT OF LAMBS RESULT IN:

Maximum growth

Heavier weaning mass

INCREASED PROFITS

Healthier lambs

Higher weaning %

INCREASED PROFITS

Ensure maximum growth

Ensure lambs are provided with the best products and treatment during the first few months of their lives. This will result in maximum growth.

- Protect lambs against internal parasites through an effective drench programme.
- Treat lambs against external parasites.
- Boost growth and immunity with trace elements and vitamin supplements.
- Vaccinate lambs against common diseases as recommended by your veterinarian.

Ensure healthy lambs

DON'T ALLOW INTERNAL PARASITES TO DEVOUR YOUR PROFITS!

Roundworms	and	lapeworms	
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Growth (kg) over 8 weeks (2 doses 4 weeks apart) * Data			
Not treated	7.56 kg		
Treated against Roundworms	8.53 kg	13% higher than non tre	ated lambs
Treated against Roundworms and Tapeworms	10.53 kg	39% higher than untreat Effect of Tapeworms = 2	ed lambs 24%

Liverfluke

Growth (kg)			* Data on file
Lambs not infected with Liverfluke	11.8 kg	59 % better growth	
Lambs infected with Liverfluke	7.4 kg		

^{*} Tested over 24 weeks

Nasalworm

Growth (kg) over 8 weeks

,	
Treated against Roundworms	1.7 kg
Treated against Roundworms and Nasalworm	2.7 kg 59% better growth
	* Data on file



Good lamb management from early on ensures:

Heavier weaning lambs

Ewes reaching optimum mating mass at first mating

More lambs during lifetime



Shaping the future or

al healt

Health plan for lambs ...

PRODOSE® Green

ALBENDAZOLE 1,9% m/v



Proven broad spectrum drench for lambs

BROAD SPECTRUM CONTROL OF

Roundworms

Milk Tapeworm

Liverfluke

OVICIDAL

Reduces pasture contamination

IDEAL FOR

Lamb drenching

General broad spectrum treatment



The most effective Benzamidazoles are those with the longest half life – of which Albendazole is one.

Dose: 2 ml per 10 kg
For Liverfluke control dose: 2,5 ml per 10 kg

Prodose® Green, Albendazole 1.9 % m/v, Reg. No. G2089 (Act 36/1947), Namibia Reg. No. V95/18.1.1/42 NSO *Refer to product insert for more info

PRODOSE® Orange

SA & Namibian Farmers' favourite drench (SAAHA STATS)

BROAD SPECTRUM

Roundworms

Nasalworm

Liverfluke

Giant Liverfluke

Milk Tapeworm

Offers

Protection against all

major parasites

Better production

Greater profits

Peace of mind

35 DAY RESIDUAL ACTION

Wireworm

Offers:

Long lasting protection
Additional protection
during the summer

Fewer parasites on pasture – vacuum effect Greater production

Increased profits

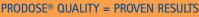
OVICIDAL

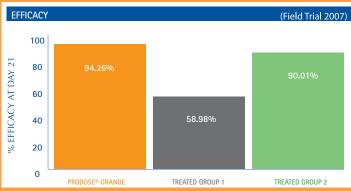
Dose: 2 mℓ per 10 kg

ALBENDAZOLE 1,9% m/v

CLOSANTEL 3,94% m/v







*Cathcart trial

Prodose* Orange, Albendazole 1.9 % m/v and Closantel 3.94% m/v, Reg. No. G2101 (Act 36/1947), Namibia Reg. No. V95/18.1.8/43 $\overline{\rm NSO}$

Sharing the future of animal health



VIRBAMAXTM First Drench

Powerful comprehensive parasite control for lambs

How to use Virbamax First Drench:

Use on lambs older than 6 weeks.

As with all drenches, vaccinate your lambs for Clostridium infections, including pulpy kidney disease, at least 14 days before drenching.

INNOVATIVE

The first combination of Abamectin and Praziquantel in SA.

Ideal lamb drench Launched in 2003

A new generation of lamb drenching

Providing: drench for 7 years Market leading lamb

Bigger and healthier lambs

COMPREHENSIVE

Controls the main parasites that inhibit lamb growth

Broad spectrum of Roundworms

Milk tapeworm

Serrated tapeworm Nasalworm

For Liverfluke problems

Use PRODOSE Orange

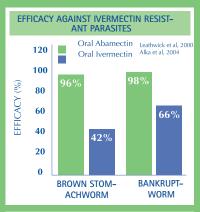
ABAMECTIN 0,08% m/v

PRAZIQUANTEL 1,5% m/v

POWERFUL COMBINATION

The power of ABAMECTIN

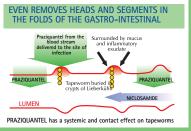
powerful roundworm and Nasalworm

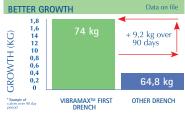


Dose: 2,5 mℓ per 10 kg

The power of PRAZIQUANTEL

... powerful Tapeworm control





Virbamax™ First Drench, Abamectin 0,08 % m/v and praziquantel 1.50 % m/v, Reg. No. G3084 (Act 36/1947), Namibia Reg. No. V02/18.1.8/100 N50

PRODOSE® Red LEVAMISOLE 2,56 % m/v

Soluble Powder **Emergency drench for wireworm**

POWDER FORM

Available in powder form as a more affordable option. Mix with water.



CONTROLS

Wireworm

Drenches that are bound to blood proteins are less efficient when sheep are anaemic. Therefore, only when sheep exhibit symptoms of anaemia, should an emergency drench be given with a product that acts on contact. Source: LHPG Journal Vol 3, 2006.

Dose: 3 m ℓ per 10 kg

EMERGENCY DRENCH

Use when animals are anaemic

Does not require blood protein for efficacy

Wirecide F

COMBAT RESISTANCE

Highly effective against resistance against wireworm species in sheep. Decreases production of viable Liverfluke eggs.

Lambs lighter than 25 kg should not be treated.



Dose: 1 mℓ per 25 kg

NITROXYNIL 34% m/v



Shaping the future of

Health plan for ewes and rams. BETTER MANAGEMENT OF EWES AND RAMS RESULT IN:

Healthier ewes

Fertile rams

Higher lamb %

Ensure healthy ewes and rams

- Follow an effective drenching programme against internal parasites.
- Treat against external parasites.
- Vaccinate sheep against common diseases as recommended by your local Vet.
- Boost growth and immunity with trace element and vitamin supple-





Ensure higher lamb %

Guidelines for high lamb %

At the start of the mating season:

- Ewes and rams should be in excellent condition (3,5 condition score) Ewes should be as heavy as possible and rams should be as healthy as possible
- Both ewes and rams should be in a positive mass phase *1
- Rams should be free of Nasalworm, to be able to smell ewes on heat

Research proves:

- For every 1 kg the ewe is heavier at mating, the lamb % is up by 1,5% to 2,5%.
- Ewes that are in excellent health and condition when mating, produce more

Increase profits:

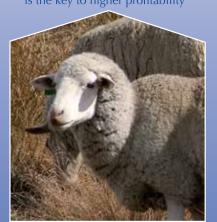
Reproduction

BIRTH OF TWINS

- most important factor affecting ewe productivity *2
- ewes weaning twins
 - = more kg lamb over lifetime
- = more income under almost all conditions *2

Weaning %

HIGH WEANING % is the key to higher profitability



Lamb growth

Ewes have a major impact during first few

- Milk production affects growth
- Maternal immunity affects health (growth)
- See Health plan for lambs tion on lamb growth

^{*1} Rowe, 2003 *3 MLC, 2001 *2 Vakil et al. 1968





ALBENDAZOLE 1,9% m/\

CLOSANTEL 3,94% m/v



SA & Namibia (SAAHA STATS) Farmers' Favourite drench

BROAD SPECTRUM

Roundworms

Nasalworm Liverfluke

Giant Liverfluke

Milk Tapeworm Offers:

Protection against all major parasites

Better production

Greater profits

Peace of mind

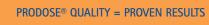
35 DAY RESIDUAL ACTION

> Wireworm Offers:

Long lasting protection Additional protection during the summer

months Fewer parasites on pasture – vacuum effect

Greater production Increased profits





OVICIDAL

Dose: 2 mℓ per 10 kg

As per package insert

Prodose® Orange, Albendazole 1.9 % m/v and Closantel 3.94% m/v, Reg. No. G2101, Namibia Reg. No. V95/18.1.8/43 NSO

PRODOSE® Yellow LA

CLOSANTEL 7,5% m/v

Cathcart Trials

Affordable summer drench

BROAD SPECTRUM Wireworm

Nasalworm

Hookworm Liverfluke

Conical fluke

35 DAY RESIDUAL ACTION

Wireworm

Offers:

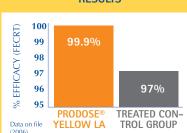
Parasite free for longer Better production



Control new spring/ early summer infestation

Control late autumn infestation

PRODOSE® QUALITY = PROVEN **RESULTS**



Drench with PRODOSE® ORANGE or VIRBAMAX LV® to control over wintering stage



Dosis: 1,3 mℓ per 10 kg for conical fluke



summer and

Prodose® Yellow LA, Closantel 7.5 % m/v, Reg. No. G1959 (Act 36/1947), Namibia Reg. No. V03/18.1.3/104NS0



Shaping the future of animal health

VIRBAMAX LV®

Low Volume Drench

ABAMECTIN 0,2 % m/v

Dosis: 1 mℓ per 10 kg

BROAD SPECTRUM PARASITE CONTROL

Broad spectrum Roundworm

Nasalworm Australian itch mite



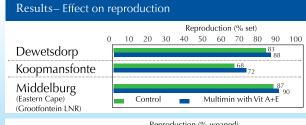
POWERFUL ACTION = EFFICACY

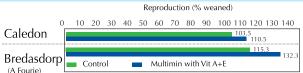


Virbamax LV®, Abamectin 0,2 % m/v, Reg. No. G2782, Namibia Reg. No. V01/18.1.2/127 NSO

Vitamin and mineral supplement

The product of choice: MULTIMIN® (SAAHA STATS)





When and how to use Multimin®

Multimin is injected under the skin of the neck area, using the tenting technique. Use Multimin in conjunction with Vitamin A

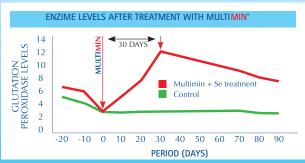




How does Multimin® work?

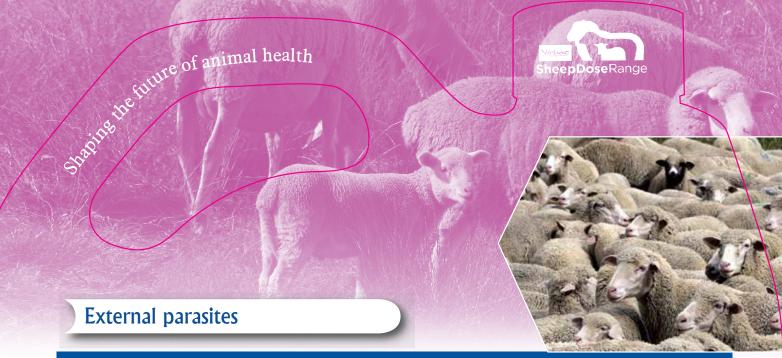
- Multimin provides the mineral component of various enzimes.
- Leads to a valuable increase in enzime levels.
- Increased enzime levels leads to increased natural resistance and efficient reproduction.

The total process takes 20 to 30 days as seen on graph below, therefore Multimin should be injected 4 weeks before calf/lamb and 4 weeks prior to mating.





imin® + Se + Cu + Cr Cattle, Zinc 40 mg, manganese 10 mg, selenium 5 mg, copper 15 mg, chromium 5 mg, Reg. No. G3371, (Act 36/1947), Namibia Reg. No. V06/19.3/67 NSQ. Multimin® + Se + Cu Cattle, Zinc 40 mg, manganese 10 mg, selenium 5 mg, copper 15 mg, Reg. No. G2144, (Act 36/1947), Namibia Reg. No. V06/19.3/63 NSQ]. Multimin® + Se + Cu Sheep and Goats, Zinc 40 mg, manganese 10 mg, selenium 3 mg, copper 10 mg, Reg. C2145, (Act 36/1947), Namibia Reg. No. V06/19.3/142 NSQ. Multimin® + Se Cattle Sheep and Goats, Zinc 40 mg, manganese 10 mg, selenium 5 mg, Reg. No. G1853, (Act 36/1947), Namibia Reg. No. V06/19.3/63 NSQ. Reg. No. G1853, (Act 36/1947), Namibia Reg. No. V06/19.3/63 NSQ. Refer to data on file for more information.



Parasite	Peak activity and occurrence	Symptoms and damage	Control
Sheep scab Caused by a mite. Subject to regulatory control measures.	Mainly March to October - Occurs country wide	- Severe itching and biting - Biting and scratching - Wool loss - Weight loss - poor appetite	Inject: Virbamec® LA Dip: Cypermethrin - Treat all the sheep on the farm. - Treat twice, 7-10 days apart.
Red lice This is a biting louse that feeds on epidermal tissue and skin scabs	From May to October - Especially in stress periods Occurs country wide.	- Irritation - Biting and scratching - Poor appetite - Poor growth - Up to 1kg less clean wool - 20 % reduction in wool income	Pour on: Amipor® - Sheep and goats - Two treatments, three weeks apart
Karoo paralysis tick This tick releases toxins during feeding which cause paralysis.	Form February to September - Usually peaks during April and May - Outbreaks: Decreasing temperature or cold, damp and overcast. weather	- Paralysis - Death: up to 15 % of flock	Pour-on: Amipor® Dip: Cypermethrin - Treat sheep preventatively early in the season Regular monitoring Dip immediately if paralysis occurs
Blowfly Blowflies have changed their mating habits and also attack living sheep.	Summer months - Matted wool - Crutch area where wool is dirty - Other external parasite infestations - Wounds - Occurs country wide.	Economic impact: Costs SA farmers millions of rands annually. - Wool loss - Costs of treatment - Poor appetite and growth - Deaths	Wound Sept Plus Cypermethrin Treating wounds: - Clean wounds thoroughly - Spray evenly and sparingly onto the wound from a distance of approximately 20 cm holding the can upright



AMIPOR®

- Contains : 1% m/v Amitraz 1% m/v Amitraz 1 % Cyper-methrin 5 % Piperonyl Butoxide
- Dose: 4 mℓ per 10 kg against Red lice
 Dose: 2 mℓ per 10 kg against Karoo Paralysis tick



VIRBAMEC® L

- Contains: 1% m/v Ivermectin 10% Clorsulon
- Dose: 1 mℓ per 50 kg
- Roundworm's
- Liverfluke
- Sheep scab



VIRBAMEC® LA

- Contains: 1% m/v lvermectin
- Dose: 1 mℓ per 50 kgRoundworm



WOUND SEPT PLUS

- Contains:
 Cypermethrin 0,0125 % m/v,
 Dichlorophen 0,015 % m/v,
 Chlorocresol 0,5 % m/v,
 Gentian violet 0,15 % m/v,
 Prevents blowfly strike and the contamination of open wounds by flies

