



Shaping the future of animal health



HEALTH PLAN FOR SHEEP

FOR IMPROVED PRODUCTION AND REPRODUCTION

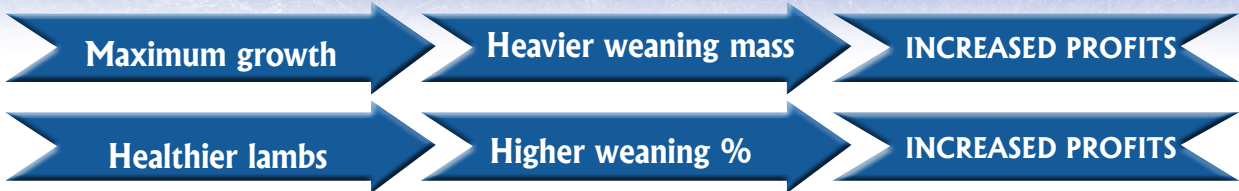
Virbac RSA (Pty) Ltd (Reg. No. 1990/003743/07)
Private Bag X115, Halfway House 1685, South Africa. Tel: (012) 657-6000

Shaping the future of animal health



Health plan for lambs ...

BETTER MANAGEMENT OF LAMBS RESULT IN:



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 Tapeworms	
Growth (kg) over 8 weeks (2 doses 4 weeks apart) <small>* Data on file</small>	
Not treated	7.56 kg
Treated against Roundworms	8.53 kg 13% higher than non treated lambs
Treated against Roundworms and Tapeworms	10.53 kg 39% higher than untreated lambs Effect of Tapeworms = 24%

Nasalworm	
Growth (kg) over 8 weeks	
Treated against Roundworms	1.7 kg
Treated against Roundworms and Nasalworm	2.7 kg 59% better growth

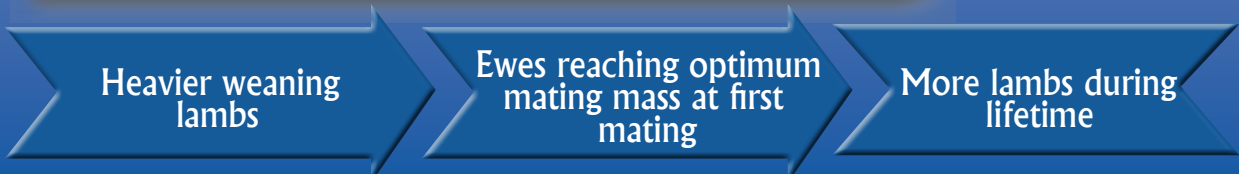
* Data on file

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

* Tested over 24 weeks



Good lamb management from early on ensures:





Shaping the future of animal health

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



TECHNICAL ADVICE AND SERVICES

The most effective Benzimidazoles 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

ALBENDAZOLE 1,9% m/v

SA & Namibian Farmers' favourite drench (SAAHA STATS)

CLOSADEL 3,94% m/v



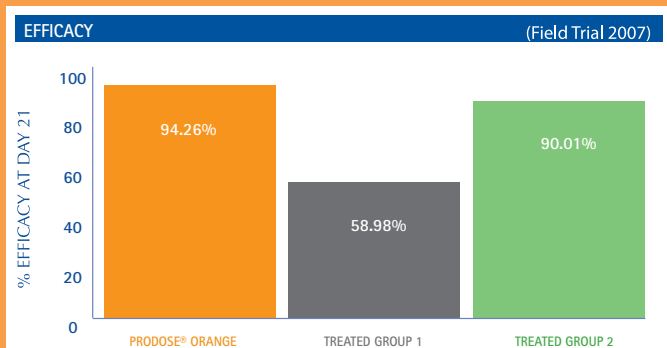
BROAD SPECTRUM
Roundworms
Nasalworm
Liverfluke
Giant Liverfluke
Milk Tapeworm
Offers:
Protection against all major parasites
Better production
Greater profits
Peace of mind

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

PRODOSE® QUALITY = PROVEN RESULTS



*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 [NSO]

Shaping the future of animal health



VIRBAMAX™ First Drench

Powerful comprehensive parasite control for lambs



ABAMECTIN 0,08% m/v

PRAZIQUANTEL 1,5% m/v

How to use Virbamax First Drench:
Use on lambs older than 6 weeks.

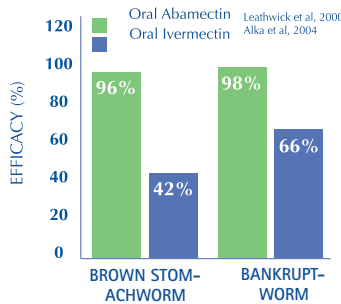
As with all drenches, vaccinate your lambs for Clostridium infections, including pulpy kidney disease, at least 14 days before drenching.

POWERFUL COMBINATION

The power of ABAMECTIN

... powerful roundworm and Nasalworm control

EFFICACY AGAINST IVERMECTIN RESISTANT PARASITES

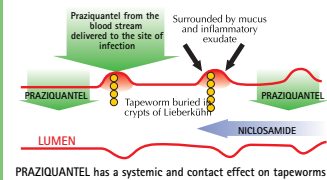


Dose: 2,5 ml per 10 kg

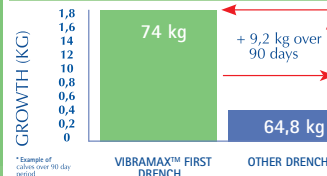
The power of PRAZIQUANTEL

... powerful Tapeworm control

EVEN REMOVES HEADS AND SEGMENTS IN THE FOLDS OF THE GASTRO-INTESTINAL



BETTER GROWTH



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

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 [NSO](#)

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 ml 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

Prodose® Red, Levamisole hydrochloride 99% m/m, Reg. No. G2166 (Act 36/1947), Namibia Reg. No. V01/18.1.4/124 [NSO](#)

Wirecide F, Nitroxylin 34% m/v, Reg. No. G3780, Namibia Reg. No. V08/18.1.3/130 [NSO](#)



Shaping the future of animal health

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 supplements.



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 twins.

Increase profits:

Reproduction

Weaning %

Lamb growth

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

HIGH WEANING % is the key to higher profitability



Ewes have a major impact during first few months

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

*1 Rowe, 2003

*2 Vakil et al, 1968

*3 MLC, 2001

Shaping the future of animal health



PRODOSE® Orange

SA & Namibia (SAAHA STATS)
Farmers' Favourite drench



ALBENDAZOLE 1,9% m/v

CLOSANTEL 3,94% m/v

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

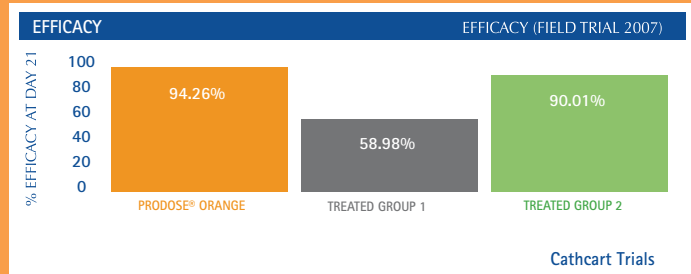
OVICIDAL

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® QUALITY = PROVEN RESULTS



PRODOSE® Yellow LA

Affordable summer drench

CLOSANTEL 7,5% m/v



BROAD SPECTRUM
Wireworm
Nasalworm
Hookworm
Liverfluke
Conical fluke

35 DAY RESIDUAL ACTION

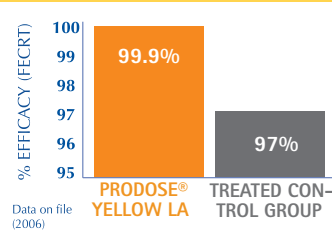
Wireworm

Offers:

Parasite free for longer

Better production

PRODOSE® QUALITY = PROVEN RESULTS



Dose: 1 ml per 10 kg

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

CONTROL OF NASALWORM

NOV

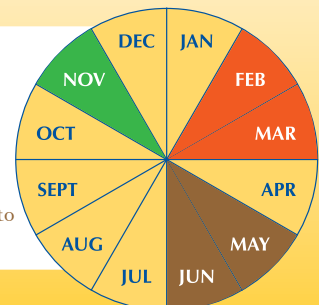
Control new spring/early summer infestation

FEB & MARCH

Control late summer and autumn infestation

MAY & JUNE

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



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

VIRBAMAX LV®

Low Volume Drench

ABAMECTIN 0,2 % m/v

POWERFUL ACTION = EFFICACY

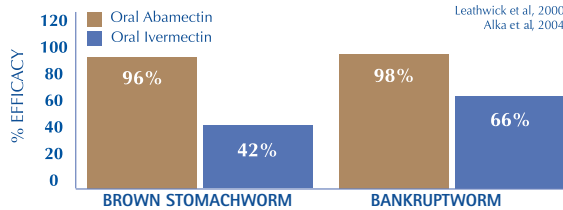


Dosis: 1 ml per 10 kg

BROAD SPECTRUM PARASITE CONTROL
Broad spectrum
Roundworm
Nasalworm
Australian itch mite



EFFICACY AGAINST IVERMECTIN RESISTANT PARASITES



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

Oral-Vit-A

Dilute 20 ml in 1l of water

Repeat every 3 months if necessary

Dose: 2 ml per 10 kg

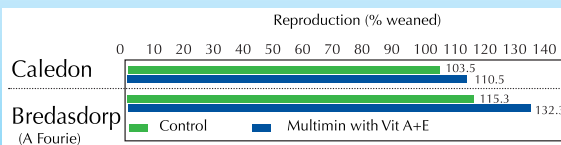
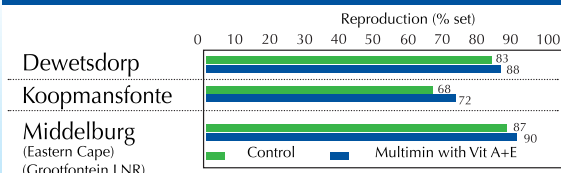


Oral-Vit-A, Abamectin 0,2 % m/v, Reg. No. G1037, Namibia Reg. No. WV11/17.1.2/1081 NSO

Vitamin and mineral supplement

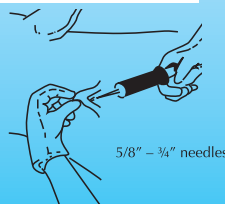
The product of choice: **MULTIMIN® (SAAHA STATS)**

Results– Effect on reproduction



When and how to use Multimin®

Multimin is injected under the skin of the neck area, using the tenting technique.

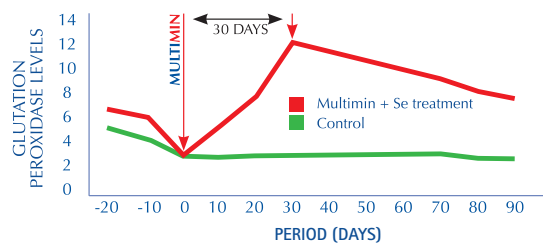


How does Multimin® work?

- Multimin provides the mineral component of various enzymes.
- Leads to a valuable increase in enzyme levels.
- Increased enzyme 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.

ENZIME LEVELS AFTER TREATMENT WITH MULTIMIN®



Trace Minerals per 1 ml dose:



EWES	1 ml
• 4 weeks before lambing	
• 4 weeks before mating	
LAMBS	1,5 ml
• At weaning (>25 kg)	
RAMS	1 ml
• 3-4 months before mating	
(3 times a year – every four months)	

Trace Minerals per 2 ml dose:








EWES	2 ml
• 4 weeks before lambing	
• 4 weeks before mating	
LAMBS	1 ml
• At weaning (>25 kg)	
RAMS	2 ml
• 3-4 months before mating	
(3 times a year – every four months)	

Shaping the future of animal health



External parasites

Parasite	Peak activity and occurrence	Symptoms and damage	Control
<p>Sheep scab Caused by a mite. Subject to regulatory control measures.</p> 	<p>Mainly March to October - Occurs country wide</p>	<p>- Severe itching and biting - Biting and scratching - Wool loss - Weight loss - poor appetite</p>	<p>Inject: Virbamec® LA Dip: PRO-DIP CYP® 20 % - Treat all the sheep on the farm. - Treat twice, 7-10 days apart.</p> <p><small>Cypermethrin 20% m/v. Reg. No. V08/18.3.4/129 [NSO]</small></p>
<p>Red lice This is a biting louse that feeds on epidermal tissue and skin scabs</p> 	<p>From May to October - Especially in stress periods. - Occurs country wide.</p>	<p>- Irritation - Biting and scratching - Poor appetite - Poor growth - Up to 1kg less clean wool - 20 % reduction in wool income</p>	<p>Pour on: Amipor® - Sheep and goats - Two treatments, three weeks apart</p>
<p>Karoo paralysis tick This tick releases toxins during feeding which cause paralysis.</p> 	<p>Form February to September - Usually peaks during April and May - Outbreaks: Decreasing temperature or cold, damp and overcast. weather</p>	<p>- Paralysis - Death: up to 15 % of flock</p>	<p>Pour-on: Amipor® Dip: PRO-DIP CYP® 20 % - Treat sheep preventatively early in the season. - Regular monitoring. - Dip immediately if paralysis occurs</p> <p><small>Cypermethrin 20% m/v. Reg. No. V08/18.3.4/129 [NSO]</small></p>
<p>Blowfly Blowflies have changed their mating habits and also attack living sheep.</p> 	<p>Summer months - Matted wool - Crutch area where wool is dirty - Other external parasite infestations - Wounds - Occurs country wide.</p>	<p>Economic impact: Costs SA farmers millions of rands annually.</p> <p>- Wool loss - Costs of treatment - Poor appetite and growth - Deaths</p>	<p>Dip (Preventatively): PRO-DIP CYP® 20% Dosing: - Crutching - Treat against internal and external parasites - Treat wounds with:</p>  <p>WOUND-SEPT-PLUS G1521 Act 36/1947. - Tail length – vulva covered. - Selection.</p> <p><small>Reg. No. G231 (Act 36/1947) Namibia Reg. No. V04/18.3.4/119 [NSO] Cypermethrin 0.0125% m/v, Dichlorophen 0.015% m/v. Reg. No. Q1521 (Act 36/1947), Namibia Reg. No. V11/18.1.9/1082 [NSO]</small></p>



PRO DIP CYP® 20 %

- Contains: 20% m/v Cypermethrin
- Mix 1
- Up to 4 weeks protection against blowfly

Reg. No. G2311 (Act 36/1947) Namibia Reg. No. V4/18.3.4/119 [NSO]



AMIPOR®

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

Reg. No. G2058 (Act 36/1947) Namibia Reg. No. V5/19.3.9/75 [NSO]



VIRBAMEC® L

- Contains: 1% m/v Ivermectin 10% Clorsulon
- Dose: 1 ml per 50 kg
- Roundworms
- Nasalworm
- Liverfluke
- Sheep scab

Reg. No. G3269 (Act 36/1947) Namibia Reg. No. V06/18.1.8/72 [NSO]



VIRBAMEC® LA

- Contains: 1% m/v Ivermectin
- Dose: 1 ml per 50 kg
- Roundworm
- Nasalworm
- Sheep scab

Reg. No. G2885 (Act 36/1947) Namibia Reg. No. V01/18.1.2/109 [NSO]



Virbac RSA (Pty) Ltd (Reg. No. 1990/003743/07)

Private Bag X115, Halfway House 1685, South Africa. Tel: (012) 657-6000