DEVELOPED BY A KIWI VET WITH **PROVEN EFFICACY AGAINST COOPERIA AND OSTERTAGIA** ON KIWI FARMS

ALPHEUS ANTI-PARASITIC CAPSULES

Each capsule contains 1.72g of Abamectin. Each primer dose tablet contains 1125mg of Levamisole HCl and 679.5mg of Oxfendazole

Alpheus Anti-Parasitic Capsules contain Abamectin, Oxfendazole and Levamisole HCl, which belong to the Macrocyclic Lactone, Benzimidazole and Imidazothiazole Anthelmintic classes respectively. Resistance may develop to any chemical. It is advisable that a resistance test be conducted regularly when using any parasite treatment.

For effective treatment and extended control for 125 days of the following sensitive species of worms (*includes inhibited fourth stage larvae):

ENDOPARASITES
Haemonchus spp., Trichostrongylus axei, Ostertagia spp.*, Cooperia spp., Trichostrongylus colubriformis, Nematodirus helvetianus, Bunostomum phlebotomum, Oesophagostomum radiatum, Trichuris spp.*, Dictyocaulus viviparous (lungworm)*

ECTOPARASITES
Sucking lice: *Linognathus vituli, Haematopinus eurysternus, Solenopotes capillatus*. Mange mites: *Psoroptes ovis*

Also aids in control of: Biting lice: *Damalinia bovis*.
Mange mites: *Chorioptes bovis*

DOSE
Cattle 120 to 150kg: 1 capsule and 1 primer dose tablet
Cattle 151 to 300kg: 1 capsule and 2 primer dose tablets

WITHHOLDING PERIODS
Meat – Cattle producing meat or offal for human consumption must not be sold for slaughter either during treatment or within 180 days of the last treatment.

Milk – Milk intended for sale for human consumption must be discarded during treatment and for not less than 180 days following the last treatment.

Approved pursuant to the HSNO Act 1996, approval code HSR100758.
See **www.epa.govt.nz** for approval controls.

Registered pursuant to the ACVM Act 1997, No A11121.
See **www.foodsafety.govt.nz** for registration conditions.

LIKE TO KNOW MORE?

For further information, contact Sirona on **0800 474 766**, visit **www.sironaanimalhealth.com** or contact your local veterinarian.

DEVELOPED AND MANUFACTURED IN NEW ZEALAND BY

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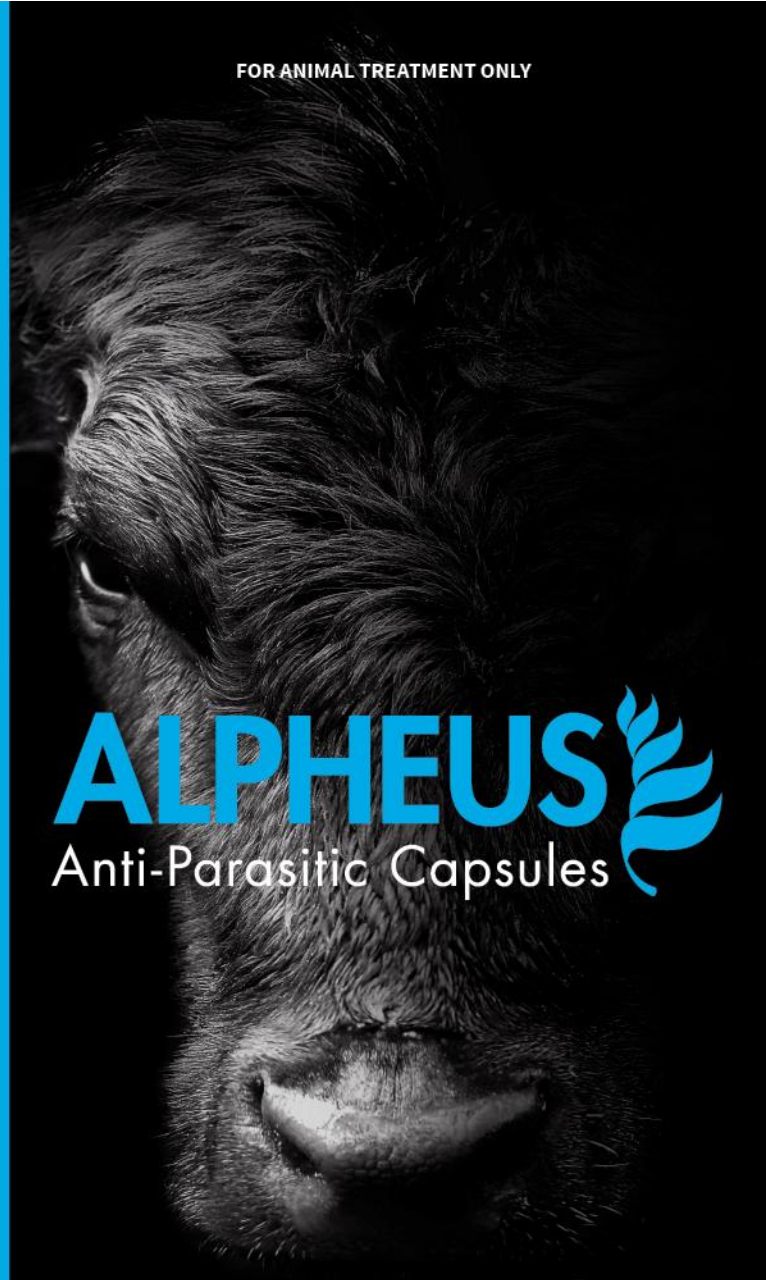
SIRONA
Animal Health Partners

TRK CT455298

FOR ANIMAL TREATMENT ONLY



ALPHEUS
Anti-Parasitic Capsules

FOUR MONTHS PREMIUM PROTECTION
FROM ONE DOSE

BENEFITS AT A GLANCE

- ✓ Gives 125 days broad-spectrum protection.
- ✓ Kills ingested L3 larvae preventing possible gut damage and the development of patent infections.
- ✓ Unique Captec technology prevents regurgitation. 100% retention in all trials to date.
- ✓ Capsule floats in the rumen so it can be given concurrently with other capsule treatments, e.g. FE boluses, trace element boluses.
- ✓ Applicator allows simultaneous administration with other CR boluses.
- ✓ Unique flat head design of applicator makes it easy to administer.

A UNIQUE SOLUTION TO LARVAL CHALLENGE IN AUTUMN PASTURES

New Zealand farmers annually face significant issues with R1 cattle that show decreased or even negative growth rates in the autumn period, despite treatment with anthelmintics and adequate nutrition.

During the autumn with the increase in moisture, the number of parasite larvae on the pasture increases dramatically. It is thought the gut damage caused by ingesting high numbers of these larvae could be the cause of this loss of production.

The gut damage could also have a long term impact on the efficiency of the animal's digestive system resulting in a long term impact on production.

Alpheus anti parasitic capsules have been developed to prevent this damage.

Alpheus anti-parasitic capsules were developed by a kiwi vet and manufactured in New Zealand for New Zealand farming conditions. They offer four months premium protection from just one dose.

UNIQUE FORMULATION TECHNOLOGY

The primer tablets containing Oxfendazole and Levamisole are administered concurrently with the Abamectin capsule. This combination cleans out all stages of susceptible parasites including any abamectin resistant worms that may be present.

The 125 day capsule delivers abamectin at 13.76 mg/day, preventing ingested parasite larvae (L3) from becoming established.

The capsule has been developed to have an abrupt cut off at the end of payout to minimise the resistance selecting tail.

Alpheus Anti-parasitic capsule has been shown to be safe even if mistakenly double dosed to 120kg calves.

To maintain safety of treatment and to control and prevent infection by susceptible parasites for 125 days, the recommended weight range of cattle at dosing is 120-300kg"

The risk of under or overdosing is minimal when label recommendations are adhered to.

RECOMMENDATIONS FOR USE

The Alpheus antiparasitic capsule has been developed to protect the R1 calf during a specific period of their lives.

It is recommended that Alpheus is incorporated into a parasite management programme that has been developed by your animal health professional to meet the needs of your property and stock to ensure the best possible production results.

It is recommended that the capsule is only used once a year at the onset of Autumn.

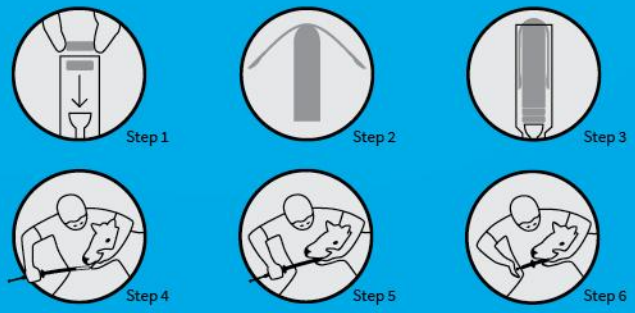
In irrigated areas, it may be prudent to use the capsule earlier.

Consider implementing refugia either through leaving a percentage of stock (10%) untreated or that the young animals are followed by an older group of cattle.

Where the resistance status of a property is unknown, it's recommended that FECs are monitored at 50 and 100 days.

If there's any evidence of patent infection then an exit dose is recommended.

UNIQUE DELIVERY TECHNOLOGY



PROVEN HIGHLY EFFECTIVE

PRODUCTION STUDY ONE: MANAWATU

	Number of Animals	Average Weight Day 0 (kg)	Average Weight Day 28 (kg)	Average Weight Day 56 (kg)	Average Weight Day 84 (kg)	Average Weight Day 112 (kg)	Group Average Weight Gain (kg)	Group Weight Gain % bodyweight
Control	64	180.2	177.6	199.8	227.7	234.3	54.1	30%
Capsule	72	170.6	177.5	20.3.3	229.8	239.0	68.4	40%

	FEC 1	FEC 2	FEC 3	FEC 4	FEC 5
Control	0	160	0	110	-
Capsule	0	0	0	0	0

PRODUCTION STUDY TWO: CANTERBURY

	Number of Animals	Average Weight Day 0 (kg)	Average Weight Day 28 (kg)	Average Weight Day 56 (kg)	Average Weight Day 84 (kg)	Average Weight Day 112 (kg)	Group Average Weight Gain (kg)	Group Weight Gain % bodyweight
Control	36	150.5	159.2	164.5	189.5	221.3	70.8	47%
Capsule	36	152.1	160.2	165.2	197.1	227.1	75.1	49%

	FEC 1	FEC 2	FEC 3	FEC 4	FEC 5
Control	0	0	0	0	-
Capsule	0	0	0	0	0

PRODUCTION STUDY THREE: BAY OF PLENTY

	Number of Animals	Average Weight Day 0 (kg)	Average Weight Day 28 (kg)	Average Weight Day 56 (kg)	Average Weight Day 84 (kg)	Average Weight Day 112 (kg)	Group Average Weight Gain (kg)	Group Weight Gain % bodyweight
Control	49	191.7	197.4	204.6	212.6	223.5	31.8	17%
Capsule	46	179.4	189.9	200.3	206.3	220.2	40.7	20%

	FEC 1	FEC 2	FEC 3	FEC 4	FEC 5
Control	120	40	50	30	-
Capsule	20	0	0	0	10

Production studies were carried out on three properties around NZ – BOP, Manawatu, Canterbury
Animals were randomly assigned to capsule or control
All animals were weighed and bulk (10 sample's) FEC's taken from each group
Capsule groups were given one Alpheus capsule and one or two primer tablets according to weight
Control group given a triple oral drench dosed according to weight
Weights, bulk FEC's and oral drenching was repeated every 28 days until day 112
Final FEC's taken from the capsule groups at day 125
Drought and consequent lack of parasite challenge occurred in Canterbury
Manawatu had feed deficits due to drought and then flooding