



LIVAMOL[®] with BioWorma[®]

BIOLOGICAL CONTROL CONTAINING THE SPORES OF A FUNGUS THAT CAPTURES AND CONSUMES INFECTIVE NEMATODE LARVAE WITHIN THE MANURE OF GRAZING ANIMALS

PRESENTATION: A highly palatable, green free flowing fine meal.

ACTIVE CONSTITUENTS: Contains a minimum of 20,000 colony forming Units/gram of *Duddingtonia flagrans* IAH 1297.

Guaranteed Analysis		
Crude Protein (Min) 20%	Crude Fat (Min) 5%	Crude Fibre (Max) 16%
Calcium (Min) 4%	Calcium (Max) 6%	
Phosphorous (Min) 1.5%	Fluorine (Max) 0.025%	
Vitamin A (Min) 27,000 IU/lb	Vitamin D3 (Min) 54,000 IU/lb	Manganese (Min) 104ppm

PROPERTIES: LIVAMOL[®] with BioWorma[®] is a palatable feed supplement intended for further mixing into feed and that contains the spores of *Duddingtonia flagrans* strain IAH 1297 as BioWorma[®], a fungus found in soil and pasture that has been combined with Livamol[®] (see below). BioWorma[®] is a biological control for the free-living stages of the listed parasitic gastrointestinal nematodes (as listed below) of grazing animals and acts by substantially reducing the numbers of infective worm larvae (including chemical/anthelmintic multi-resistant larvae) emerging from manure onto pasture. When fed to grazing animals, the thick-walled spores remain inert (having no effect within the host animal) and resist digestion, passing through into the manure. Within the manure, the spores germinate and form trapping organs that capture, paralyze and consume emerging infective worm larvae (including chemical/anthelmintic multi-resistant larvae). The crucial re-infestation stage of the parasites' life cycle is interrupted, reducing the amount of re-infection from contaminated pasture. This interruption of the life cycle reduces parasitic nematodes on pasture. There are no negative effects on non-target soil nematodes, earthworms, microarthropods etc.

Biological control with *Duddingtonia flagrans* is applicable to the larvae of: SEE LABEL FOR FULL LIST

Sheep & Goats: Barber's Pole Worm or Wire Worm (*Haemonchus* spp.), Black Scour Worm or Hair Worm (*Trichostrongylus* spp.), Brown Stomach Worm (*Teladorsagia* (*Ostertagia*) spp.), Nodule Worm (*Oesophagostomum* spp.), Thin-necked Intestinal Worm (*Nematodirus* spp.) and Hookworm (*Bunostomum* spp.).

Cattle: Barber's Pole Worm or Wire Worm (*Haemonchus* spp.), Brown Stomach Worm (*Ostertagia* spp.), Black Scour Worm or Hair Worm (*Trichostrongylus* spp.), Hookworm (*Bunostomum* spp.), Intestinal Worm (*Cooperia* spp.), Thin-necked Intestinal Worm (*Nematodirus* spp.), Nodule Worm (*Oesophagostomum* spp.).

Horses: Large strongyles (large red worms), including *Strongylus* spp., *Triodontophorus* spp. and *Oesophagodontus* spp., small strongyles (small red worms or cyathostomes), including *Cyathostomum* spp., *Cylicocycylus* spp. and *Cylicostephanus* spp., Stomach Hair Worm (*Trichostrongylus axei*), Ascarids (*Parascaris equorum*), Threadworms (*Strongyloides westeri*) and Pinworms (*Oxyuris equi*).

Other grazing animals: including Deer, Alpacas and zoo animals

DOSAGE AND ADMINISTRATION: Abridged see **DIRECTIONS FOR USE** on label and read carefully

1. Treat animals with a suitable chemical wormer.
2. Move treated animals onto low worm pasture (ideally not grazed by the same animal species for a minimum 6 weeks).
3. Commence daily use of Livamol[®] with BioWorma[®] to minimise pasture infectivity and maintain the animal's low worm status.
4. Thoroughly mix Livamol[®] with BioWorma[®] with feed or feed supplements. Livamol[®] with BioWorma[®] will begin to work immediately within the manure.
5. Recommended for strategic use during periods when weather conditions are conducive to larval development and transmission on pasture at temperatures above 5° Celsius (40° Fahrenheit) throughout the year.
Use in conjunction with a recommended worm management strategy program for your area.

DAILY FEEDING RATES								
LIVAMOL [®] with BioWorma [®] according to bodyweight. For oral administration								
Bodyweight * (lbs)	50	100	200	300	500	750	1000	1200
Dosage (oz./animal/day)	0.8	1.6	3.2	4.8	8.0	12.0	16.0	19.2

*Apply according to heaviest animal in the group.

** Use additional 1.6 oz. for each 100 lbs above 1200 lbs.

REGULATORY STATUS: USA: EPA Reg. No. 91253-2 **Australia:** APVMA No. 82646 **New Zealand:** ACVM No. A011335

PACK SIZES: 15lbs (6.8 kg) 30 lbs (13.6 kg)

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