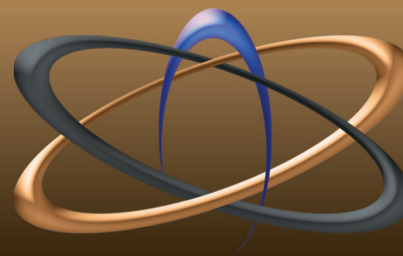


# MATRIX-C®

## HI-MINERAL Low Dose Oral Drench



ACTIVES   MINERALS   DOSE RATE   ORAL DRENCH   CONTROLS   WHP (days)



**MATRIX® C Hi-Mineral Low Dose Oral Drench is the ultimate three-way drench for cattle to combat mixed infections of gastrointestinal parasites, including those with single or dual resistance to any of the three major drench families. Triple combinations have been shown to significantly slow the development of drench resistance. It also provides selenium and cobalt to support optimal animal health.**

### CONTAINS

4 g/L abamectin, 160 g/L levamisole HCl, 90.8 g/L oxfendazole, 2 g/L selenium and 8.8 g/L cobalt.

Abamectin is a member of the macrocyclic lactones, levamisole is a member of the imidazothiazole class of anthelmintics, and oxfendazole is a member of the benzimidazoles.

### INDICATIONS

#### INTERNAL PARASITES

The actives in MATRIX® C Hi-Mineral are effective against sensitive internal parasite species including *Haemonchus contortus*, *Trichostrongylus axei*, *Ostertagia* spp., *Cooperia oncophora*, *C. surnabada*, *C. punctata*, *Trichostrongylus colubriformis*, *T. longispicularis*, *Nematodirus spathiger*, *N. helvetianus*, *Strongyloides papillosus*, *Bunostomum phlebotomum*, *Oesophagostomum radiatum*, *O. venulosum*, *Chabertia* spp, *Trichuris* spp. and *Dictyocaulus viviparus* (lungworm).

### RECOMMENDED USE

Timing of treatments will depend on the parasite pressure on your individual farms. Diagnostic testing and historical results including faecal egg counts (FECs), faecal egg count reduction tests (FECRTs) and larval cultures can help you to understand the parasite burden and resistance challenges you are facing. Talk to your local vet about parasite management practices for your area to reduce the development of resistance. It is advisable that a resistance test be conducted regularly when using any parasite treatment.



### DOSAGE GUIDE – CATTLE

Dose rate is 1 mL/20kg body weight (0.2 mg/kg abamectin; 8 mg/kg levamisole; 4.5 mg/kg oxfendazole; 0.1 mg/kg selenium and 0.44 mg/kg cobalt).

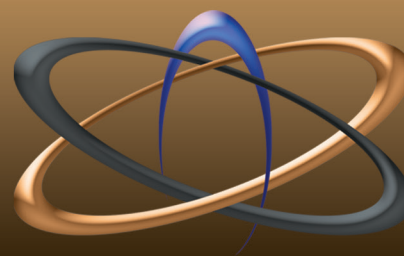
BODY WEIGHT KG	DOSE mL	5 L TREATS	10 L TREATS	20 L TREATS
120	6	833	1666	3333
160	8	625	1250	2500
200	10	500	1000	2000
240	12	416	833	1666
280	14	357	714	1428
320	16	312	625	1250
360	18	277	555	1111
400	20	250	500	1000
440	22	227	454	909
480	24	208	416	833
520	26	192	384	769
560	28	178	357	712
600	30	166	333	666
640	32	156	312	625

For cattle over 640 kg: Dose at 1 mL per 20 kg b.w.

Shake well before use. Can use with standard drenching equipment. Check the accuracy of drench guns regularly. Rinse gun with water immediately after use.

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A representative sample of animals should be weighed before treatment either with scales or a weighband. Dose rate to be based on the heaviest cattle in each group. DO NOT UNDERDOSE. If there is a large variation in size within the group, draft into two or more lines based on bodyweight to avoid excessive overdosing.

### MATRIX® – THE TRUSTED TRIPLE SINCE 2005

A triple combination product is a convenient way of drenching 3 different actives without having to drench 3 different times. The effectiveness of the triple drench should be equal to the effectiveness of the 3 separate actives drenched separately. When MATRIX® Hi-Mineral (for sheep) was registered in New Zealand in 2005, the regulator was provided with studies that showed all 3 of the main actives were individually effective and safe when combined in the product. Which is what you would expect with registration of the pioneer triple active drench for sheep and cattle in New Zealand. MATRIX® branded products are made right here in New Zealand for New Zealand farming operations.

There are two main justifications for the use of combination drenches:

1. To enable the effective control of nematodes in the presence of single or multiple drug resistance.
2. To slow the development of resistance to the individual component anthelmintic classes.

MATRIX® C Hi-Mineral is effective against parasites with single or dual resistance to the avermectin/milbemycin, benzimidazole or levamisole/morantel anthelmintic action families.

When co-administered actives have independent modes of action and mechanisms of resistance, worms that survive one treatment will be killed by the other. This means that combinations achieve higher efficacy against resistant parasite populations than do any of the individual component anthelmintics used alone, and fewer resistant parasites survive treatment. For this to be effective, it is important to ensure that there are adequate numbers of sensitive parasites in refugia in order to dilute the resistant genes.

### PRECAUTIONS & NOTES

Doses of 3 or more times those recommended can cause symptoms of levamisole toxicity, so estimate live weights carefully. Dehydrated animals may be more susceptible to toxicity. Fatal interactions may occur between levamisole and organophosphate dips so do not use at the same time. Do not use at the same time as any other selenised fertiliser, prill or product and do not exceed the stated dose or frequency without consulting a veterinarian.

For use only in weaned cattle. Not to be used in milk or in conjunction with milk or teat feeding systems.

### PACK SIZE

Available in 5 L, 10 L and 20 L packs.



**PROUDLY AVAILABLE FROM YOUR LOCAL PARTICIPATING VETERINARY CLINIC**

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