

# TECHNICAL BRIEF

## CORPORAL<sup>®</sup> DUAL COMBINATION ORAL DRENCH

**Active Ingredients:** 90.6 mg/ml Oxfendazole and 150 mg/ml Levamisole HCL

### What makes a good combination drench?

Seems a simple question. And certainly there is no shortage of combination drench options on the market. Most have been around a long time. So long in fact that we thought it was time to consider how we could set about to improve that most fundamental combination in the farmer's parasite control armoury – the benzimidazole/levamisole oral drench.

There is no doubt that since the launch of the first combination oral drenches circumstances on many New Zealand farms have changed:

- Mineral availability via water reticulation has increased dramatically; particularly in dairy situations
- Parasite resistance has become more widespread
- For various reasons, including cost, farmers have sought to extend the use of oral treatments beyond weaned calves into older and larger cattle.

Of interest to us was the fact that each of these aspects can have an influence on product safety, efficacy or administration convenience.

### So, what is different about CORPORAL?

In simple terms like some of its competitors CORPORAL is a suspension-based oral drench containing oxfendazole and levamisole. The differences are that CORPORAL:

- Contains a unique palatability enhancer
- Contains a very fine micro-milled form of oxfendazole
- Contains no added minerals



## So what do these differences mean?

1. Addition of palatability enhancer – levamisole/benzimidazole formulations are well known for their bitter taste. Poor palatability can lead to coughing and potential rejection of the dose, particularly in larger animals for which the administered dose volume is greater. CORPORAL contains a unique molasses-based palatability enhancer designed to help improve animal acceptance. When combined with the low 1mL per 20kg dose rate this provides an important benefit when treating older and larger animals.
2. Micro-milled oxfendazole – Oxfendazole is the preferred benzimidazole for use in an oral BZ/Levamisole combination. To help improve dissolution and absorption we have taken our formulation one-step further by subjecting CORPORAL to an additional milling process. This reduces the oxfendazole particle size down to an average of approx. 1.0µm; a much finer particle size than other tested and commercially available products.
3. Absence of minerals – the absence of minerals ensures that the product can be used on properties where animals have access to selenium and other minerals via the water reticulation system. This helps avoid the risk of mineral toxicity due to overdosing.

## A best-in-class product

CORPORAL is a robust formulation with a number of valuable features. It represents a “best in class” product that will find application in many cattle and sheep treatment situations.

## General Information

### Dose Rate:

**CATTLE:** 1ml per 20kg bodyweight (4.5mg/kg oxfendazole and 7.5mg/kg Levamisole HCL)

**SHEEP:** 1ml/20kg bodyweight (4.5mg/kg oxfendazole and 7.5mg/kg Levamisole HCL)

Do not dose lambs under 20kg of bodyweight.

Sheep		5L Pack Treats	20L Pack Treats
20kg	1.0mL	5000	20000
30kg	1.5mL	3333	13333
40kg	2.0mL	2500	10000
50kg	2.5mL	2000	8000
60kg	3mL	1666	6666
70kg	3.5mL	1428	5714
80kg	4.0mL	1250	5000

**Sheep in excess of 80kg should be dosed at 1ml/20kg bodyweight.**

Cattle		5L Pack Contains	20L Pack Treats
50kg	2.5mL	2000	8000
100kg	5mL	1000	4000
150kg	7.5mL	666	2666
200kg	10mL	500	2000
250kg	12.5mL	400	1600
300kg	15mL	333	1333
350kg	17.5mL	285	1142
400kg	20mL	250	1000
450kg	22.5mL	222	888
500kg	25mL	200	800
550kg	27.5mL	181	727
600kg	30mL	166	666
650kg	32.5mL	153	615

**Cattle in excess of 650 kg to be dosed at 1mL/20 kg bodyweight.**

## With-holding periods:

Meat: 10 days Milk: 35 days

## Spectrum of Activity:

CORPORAL is effective against sensitive strains of the following parasites:

Mature and immature Barber's Pole Worm (*Haemonchus*), Small Brown Stomach Worm (*Teladorsagia & Ostertagia*), Stomach Hair Worm and Black Scour Worm (*Trichostrongylus*), Thin-Necked Intestinal Worm (*Nematodirus*), Small Intestinal Worm (*Cooperia*), Intestinal Threadworm (*Strongyloides*), Hookworm (*Bunostomum*), Large Bowel Worm (*Oesophagostomum*), Large-Mouthed Bowel Worm (*Chabertia*), Whipworm (*Trichuris*), Tapeworm (*Moniezia*), Lungworm (*Dictyocaulus*) in cattle and sheep, type II Ostertagiosis in cattle and as an aid in the control of Liver Fluke in sheep.

## Directions for Use:

Shake well before use. CORPORAL is ready to use through standard drenching equipment. Correct drenching technique should be used. A representative sample of animals should be weighed before treatment. Dose the mob to the heaviest animal by liveweight in each group. Do not underdose. Where there is a large variation in size within the group, draft into two or more lines based on bodyweight, to avoid excessive overdosing. For drenching sheep, use a gun calibrated to dose in 0.5mL increments. Rinse gun after use.

**Storage:** STORE below 25°C



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