

# Animal Health Product Catalogue New Zealand



# When animals are healthy, humans are healthier too.

Boehringer Ingelheim Animal Health has the privilege and the responsibility of being one of the largest animal health businesses in the world. We will use that scale and our combined resources to help make the industry even better at improving animal health.

We are passionate about animal health, and we recognise the critical importance of serving animal health needs, with a special focus on preventative medicine. We know that when animals are healthy, humans are healthier, too.

Farmers can count on Boehringer Ingelheim to support them in raising and caring for animals in a healthy, sustainable and financially viable way, because we want to build confidence with consumers about the food they eat.

Pet owners have lifelong emotional connections with their pets and consider them to be family members; that's why we are focused on helping pets live longer and healthier lives.

With pioneering and market leading brands such as BIONIC, EPRINEX, ECLIPSE, MATRIX, NEXGARD SPECTRA, METACAM, PREVICOX and PRASCEND we will work to meet and exceed the needs of pet owners, veterinarians, producers, the communities we work in and the industry at large.



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## SHEEP PRODUCTS

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### ANTHELMINTICS

- Triple Combinations
- Injections
- Capsules

### MINERALS

### THERAPEUTICS

### PARASITES

- Internal & External Parasite Life Cycles
- Faecal Egg Count Reduction Test

### DOSING GUIDE

Triple combination drenches contain three drugs that act in different ways to kill internal roundworms. Triple combination products have been shown to significantly slow the development of drench resistance. The sooner combination drenches are used the more effective they will be at preventing resistance development, particularly when used with management strategies that help to preserve sensitive parasites. Veterinarians are best placed to advise on resistance prevention.

## Triple Combinations



### MATRIX® Hi-Mineral

Active	Minerals	Dose rate	WHP	Controls	Admin
			 		

**Actives:** Abamectin, Levamisole, Oxfendazole

**Pack size:** 1 L, 5 L, 10 L & 20 L

Mineralised.

## Applicators

### Sheep Oral Gun (15 mL)

Gun size: 15 mL

Code: 147286

For Matrix Hi-Mineral.



# SHEEP

## Anthelmintics

Long-acting single active moxidectin injections should only be used in specific circumstances. Moxidectin provides excellent control of *Haemonchus contortus* (Barber's Pole). Veterinarians should be involved in long-acting injection treatment decision making, as advice on management techniques to reduce the threat of parasite resistance developing, such as refugia and drench check testing, is paramount.

### Injections



#### EXODUS® LAI

Active	Dose rate	WHP	Admin				
		<table><tr><td>MEAT</td><td>MILK</td></tr><tr><td>91</td><td>180</td></tr></table>	MEAT	MILK	91	180	
MEAT	MILK						
91	180						

**Active:** Moxidectin

**Pack size:** 500 mL

Protection against sensitive *Teladorsagia* (*Ostertagia*) circumcincta for 112 days, *Haemonchus contortus* for 91 days and *Trichostrongylus colubriformis* for 42 days.



#### EXODUS® 1% Injection

Active	Dose rate	WHP	Admin	Other*				
		<table><tr><td>MEAT</td><td>MILK</td></tr><tr><td>28</td><td>35</td></tr></table>	MEAT	MILK	28	35		
MEAT	MILK							
28	35							

**Active:** Moxidectin

**Pack size:** 500 mL

Protection against sensitive *Teladorsagia* (*Ostertagia*) circumcincta and *Haemonchus contortus* for at least 35 days.

*\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.*

### Applicators

#### Sheep Injector (5 mL)

Gun size: 5 mL  
Code: 127140

For EXODUS LAI Injection.



#### Sheep Injector (2 mL)

Gun size: 2 mL  
Code: 147318

For EXODUS 1% Injection.





## Anthelmintics - Controlled Release

Capsules provide long periods of parasite control compared to oral drenches. When used appropriately, capsules are extremely effective at controlling the impact of parasites on stock. Veterinarians should be involved in capsule treatment decision making, as advice on management techniques to reduce the threat of parasite resistance developing, such as refugia and drench check testing, is paramount. Capsules should be administered carefully by an experienced person with the applicator gun.

## Capsules



## BIONIC® Plus

Active Minerals WHP Controls Admin



**Actives:** Abamectin, Albendazole

**Dose rate:** 40-80 kg (1 capsule), 80+ kg (2 capsules)

**Pack size:** 5 x 100 capsules

100 day double combination continuous payout.  
The ultimate pre-lamb treatment. Cobalt and selenium  
pass through the ewe's milk into her growing lambs.  
Adult sheep only.

## Applicators

Sheep Capsule Gun  
(Large)

Gun size: 40-80 kg

Code: 146573

For BIONIC Plus.





# SHEEP

## Minerals

### Injections



#### COPAJECT

Minerals	WHP	Admin	Others*
			  

**Active:** Calcium copper edetate






**Dose rate:** 1 mL

**Pack size:** 200 mL

For the treatment and prevention of copper deficiency in cattle, sheep and deer.



#### MARKS-MIN ZMS with B12

Minerals	WHP	Admin	Other*
			 

**Actives:** Zinc, Manganese, Selenium, Vitamin B12

**Dose rate:** 1.5 mL/50 kg

**Pack size:** 500 mL

Trace minerals to support growth, reproduction and immune defence, with the energy from vitamin B12 for optimum health and performance. **DO NOT** retreat animals for 8 weeks after last treatment.

*\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.*

## Applicators

### MARKS-MIN Injectors

Gun size: 5 mL & 12 mL  
Code: 162045, 162188

For MARKS-MIN products.



### COPAJECT Injector (5 mL)

Gun size: 5 mL  
Code: 156287

For COPAJECT product.





## Therapeutics

**BIVATOP® 200**

Dose rate	WHP	Admin	Others*

**Active:** Oxytetracycline  
**Dose rate:** 1 mL /10 kg  
**Pack size:** 100 mL & 250 mL

Oxytetracycline is a green light broad spectrum antibiotic with bacteriostatic activity. Treats a wide range of common respiratory and local infections associated with oxytetracycline-sensitive organisms.

**MAMYZIN®**

WHP	Admin	Others*

**Active:** Penethamate hydriodide  
**Dose rate:** 2.5 g/day for 1-5 days  
**Pack size:** 5 g & 10 g

Green light antibiotic for the treatment of infections by Gram-positive bacteria that cause mastitis, footrot, respiratory and uterine infections.

**METACAM® 20**  
**Solution for Injection**

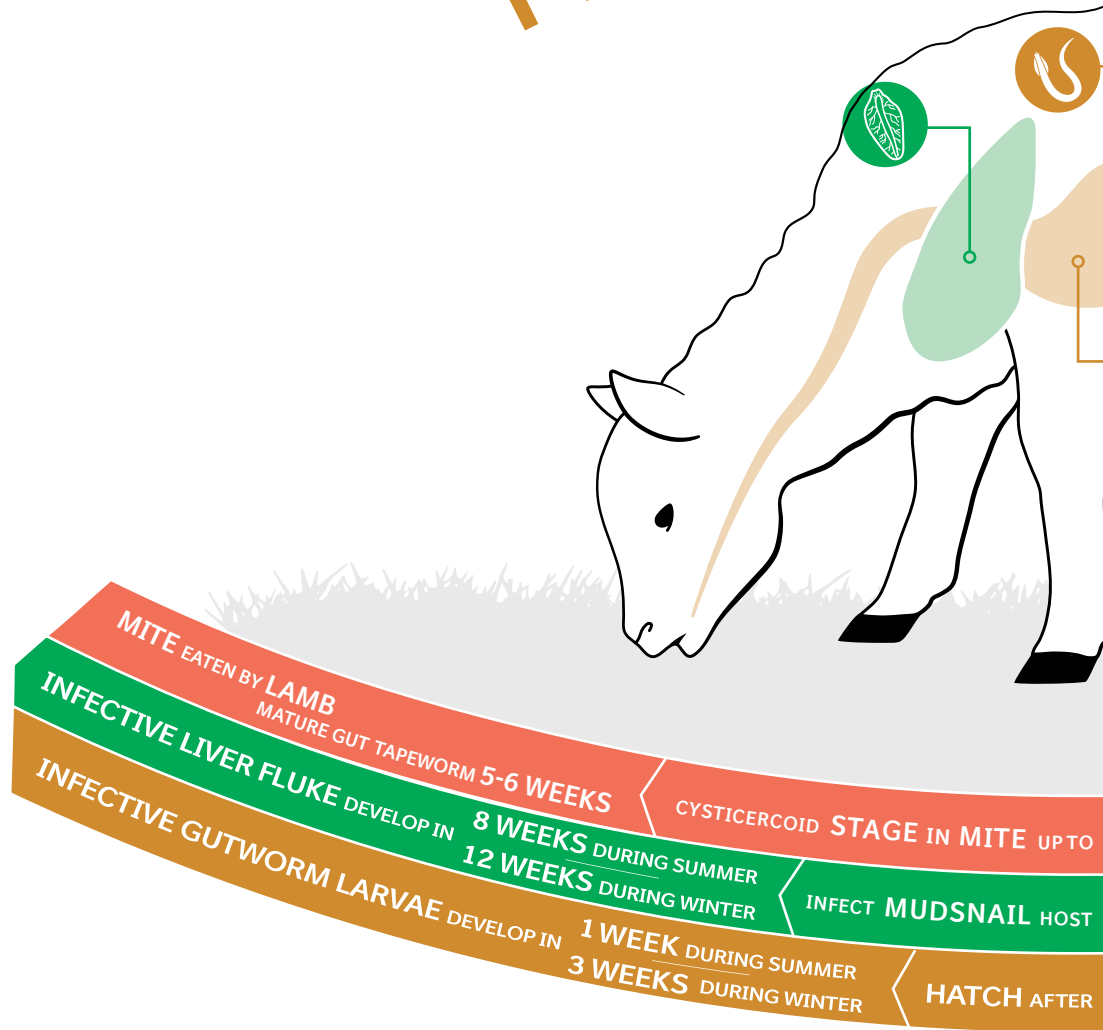
Dose rate	WHP	Admin	Others*

**Active:** Meloxicam 20 mg/mL  
**Dose rate:** 1 mL /20 kg  
**Pack size:** 50 mL, 100 mL & 250 mL

Non-steroidal anti-inflammatory for use in sheep and lambs over 2 weeks of age for the alleviation of pain and inflammation. Administer high on the neck behind the ear under the skin.

*\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.*

# PARASITE



## LIVER FLUKE

*Fasciola hepatica*



**TIPS:** This parasite can live in sheep, cattle and deer.

**TREATMENT:** Sheep are particularly sensitive to immature fluke migrating through their livers, so they need to be treated with a product that kills immature flukes.

## BARBER'S POLE WORM

*Haemonchus contortus*



**THE BLOOD SUCKING PARASITE.**

**PERFECT CONDITIONS:** Usually seen seasonally as it needs warm ambient temperatures for its larvae on the pasture to survive. One adult parasite can produce up to a whopping 15,000 eggs per day.

**TIPS:** During the risk period for BPW, a product that has persistent activity is advised, as the 'teenaged' worms suck blood before they become adults at 3 weeks post-ingestion. BPW has the ability to inhibit its own development inside the sheep and re-emerge during more favourable conditions i.e. the following spring.

**RESISTANCE:** Low levels of resistance to the BZs only.

## BROWN STOMACH WORM

*Teladorsagia/Ostertagia circumcincta*

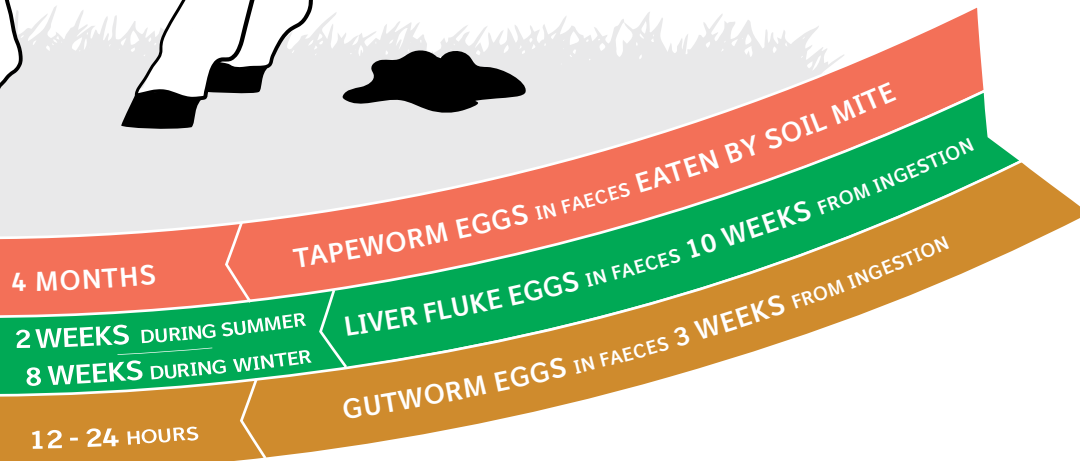
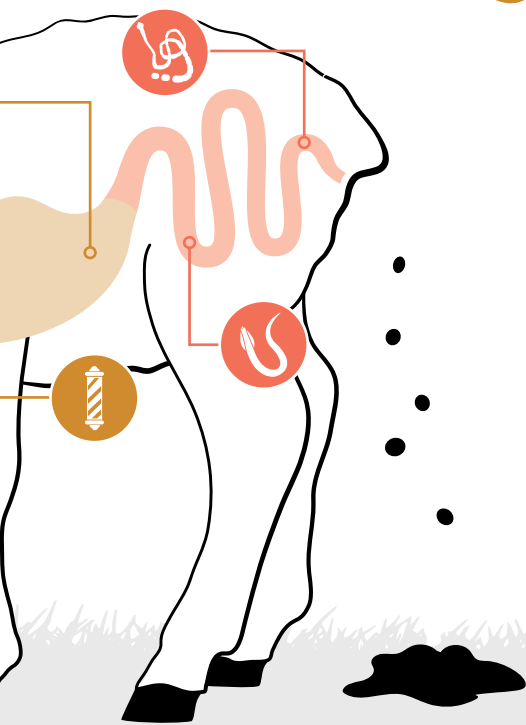





**PERFECT CONDITIONS:** Larvae survive freezing on pasture, and can 'hibernate' in stomach wall. A major worm of ewes around lambing, and of lambs during the spring and early summer.

**SIGNS:** Reduces appetite, hampering growth in lambs and milk production in ewes.

**RESISTANCE:** Moderate to high levels of resistance seen to all single active drenches. Moderate levels of resistance to combination drenches but this has been increasing over the past few years.

# LIFE CYCLE



<b>BLACK SCOUR WORM</b> <i>Trichostrongylus</i> spp. 	<b>THIN-NECKED WORM</b> <i>Nematodirus</i> spp. 	<b>TAPEWORM</b> <i>Moniezia</i> spp. 
<p><b>PERFECT CONDITIONS:</b> Larvae survive well in cooler conditions and so disease is often seen in autumn.</p> <p><b>SIGNS:</b> Reduces growth in lambs and milk production in ewes.</p> <p><b>RESISTANCE:</b> Moderate levels of resistance seen to Lev and BZ. Increasing levels of resistance to abamectin, moxidectin, and combination drenches. Triple combination and novel drench resistance becoming more common.</p>	<p><b>DISTRIBUTION:</b> Two different species (<i>N. filicollis</i> and <i>N. spathiger</i>) are usually present on most farms.</p> <p><b>PERFECT CONDITIONS:</b> <i>N. filicollis</i> requires a period of chilling in order to be able to hatch, meaning that eggs produced one season don't hatch until the following spring.</p> <p><b>RESISTANCE:</b> There are high levels of resistance to the BZs, particularly in <i>N. spathiger</i>. There are moderate levels of resistance to levamisole and BZ/Lev combinations. MLs, ML/Lev and triple combinations remain highly effective.</p>	<p><b>TIPS:</b> By itself it rarely causes reduction in growth and productivity. Gastrointestinal parasites causing diarrhoea can predispose lambs to flystrike.</p> <p><b>TREATMENT:</b> Albendazole (BZ) is known to have moderate efficacy against tapeworm but praziquantel is the drug that specifically targets tapeworms.</p> <p><b>SIGNS:</b> Tapeworm is the only gut worm that you can actually see in the faeces of animals.</p>

## Faecal Egg Count Reduction Test (FECRT) and Larval Count

FECRTs and larval counts look to give a snapshot in time of the levels of resistance of different parasite species to the different drench classes and combinations of these on a property. Each drench class and combination is tested in a minimum of 10 lambs (30 lambs/group provide much better accuracy. The more that can be included in each group the better). Depending on the number of drench classes and combinations that require testing, you will usually need at least between 60 and 100 lambs that have not been drenched within 4-6 weeks before you start the test. The test involves taking baseline faecal samples on the day of the drench and taking faecal samples 10-14 days later.

### WHAT YOU WILL NEED

- 10 mL Syringes (for dosing)
- Identification method; ear tags or marker
- Plastic bags/pottles for collecting faeces; Day 0 x 20, Day 10-14 x 60-300
- Marker pen
- Weigh scales

### RECOMMENDED DRENCH CHECK GROUPS

1. Control Group – no treatment
2. Abamectin
3. Oxfendazole
4. Levamisole
5. Abamectin/Benzimidazole
6. Abamectin/Oxfendazole/Levamisole

### OTHER GROUPS THAT CAN BE ADDED TO TEST

7. Moxidectin
8. Oxfendazole/Levamisole
9. Derquantel/Abamectin
10. Monepantel/Abamectin

### Day 0: Getting baseline results and drenching

#### INDIVIDUAL FAECAL SAMPLES (x 20)

Take individual faecal samples from 20 randomly selected lambs from the whole mob of lambs. This can be 3 or 4 lambs from each drench group depending on the number of groups you have. Don't forget to use disinfectant-free lube.

- Identify the samples with the lamb's number if possible.
- Lab tests to request:

20 x Individual Faecal Samples for faecal egg count (FEC)

1 x Pooled Quantitative Larval Culture (using all 20 samples)

#### DRENCHING

- Randomly allocate lambs into a drench group, a minimum of 10 lambs per group.
- Weigh each lamb and dose using a syringe according to the instructions.
- Identify each lamb by ear tag or marker so that they can be identified in 10-14 days' time.

### Day 10-14: Faecal sample collection day

#### INDIVIDUAL FAECAL SAMPLES

Collect individual faecal samples from each lamb and identify each one with the lamb's number - and/or the marker colour i.e. must identify to drench group.

- Lab tests to request:

60-100 minimum individual faecal samples

1 x Quantitative Larval Culture per group

## Calculating the results

### FAECAL EGG COUNTS

FECs do not differentiate between different parasite species apart from *Nematodirus*. Eggs are allowed to hatch in the laboratory into larvae and identified to parasite species under a microscope. The FECRT may show that some parasites survived the drench but the larval culture is necessary to show which parasite species these are.

- Sum the individual FECs from each group at Day 10-14 and divide by the number of lambs in the group to get a mean FEC for each group.
- Use the formula below to calculate the % FEC reduction for each group.

$$\% \text{ FEC Reduction} = \frac{\text{Drench Group Mean FEC Day 10-14}}{\text{Control Group Mean FEC Day 10-14}} \times 100$$

### PARASITE SPECIES LARVAL COUNTS

A total larval count for each group is given with the % contribution of each parasite species to this total number.

- To get a parasite species larval count at day 10-14 for each group follow the calculation below.

$$\frac{\text{Parasite Species \% Composition}}{100} \times \text{Group Total Larval Count}$$

- Then use the formula below to calculate the % larval count reduction for each parasite species in each group.

$$\% \text{ Parasite Species Larval Count Reduction} = \frac{\text{Drench Group Larval Count Day 10-14}}{\text{Control Group Larval Count Day 10-14}} \times 100$$

## Drench Check

A drench check is a quick way of looking at whether a certain drench is killing adequate numbers of parasites on a property. Follow all the instructions as per the FECRT but with only one group. A control group can be added for a more robust test. Check all drenching equipment is working well if not using a syringe to drench i.e. calibrate drench guns at the beginning and end of drenching at the least. If no control group is included substitute the Day 0 results for the Day 10-14 control into the calculations. Ensure drenches used for drench checks are relatively fresh, and well shaken. The quality of information out of a drench check depends on how well it is done!

## Helpful Hints & Tips

- Weaning time is a good time to do a FECRT as commonly lambs have not been previously drenched. As it is early in the season, it is a good idea to do a couple of FECs before weaning to check that there are enough eggs in the lambs' faeces to start the FECRT. Ideally you'd have an average of 500-700 epg with all lambs positive, but at least 300 epg is necessary (otherwise it's unlikely to get good numbers of all worm species).
- If the FECRT is done when the worm challenge is high and a control group is an animal welfare concern then this group should be removed from the test. The control group is a good source of information for the laboratory parasitologist when interpreting the results but it is not absolutely necessary. You can use the Day 0 results instead of the control at Day 10 in the calculations.
- Make a call about courier reliability when planning the test. Doing Day 14 is easier so that samples can be sent in the week. Going a few days over day 14 is fine, you just may find some eggs in the levamisole group due to this drug not commonly killing immature worms.
- The pasture that these lambs have previously grazed on is what is assessed. Don't make assumptions about different parts of the property that lambs do not regularly graze and were not grazing on before Day 0. In other words, manage the group to sample the area of the farm you are interested in – lambing paddocks are a good representation usually. Keep them away from the quarantine paddock by the yards!
- Day 0 can be made more efficient (and therefore the test more cost-effective) by the farmer pre-weighing and organizing the groups before the vet arrives. The same applies to Day 10-14. BUT they can't yard the animals too early or it becomes harder to get faecal samples.

## Dosing Guide

### Dosing Guide



PACK SIZE	DOSE RATE	25 kg	30 kg	35 kg	40 kg	50 kg	60 kg	70 kg	80 kg
500 mL	1 mL/20 kg	400	333	285	250	200	166	142	125
500 mL	1 mL/50 kg	1000	833	714	625	500	416	357	312
1 L	1 mL/5 kg	200	166	142	125	100	83	71	62
5 L	1 mL/5 kg	1000	833	714	625	500	416	357	312
10 L	1 mL/5 kg	2000	1666	1428	1250	1000	833	714	625
20 L	1 mL/5 kg	4000	3333	2857	2500	2000	1666	1428	1250
50 L	1 mL/5 kg	10000	8333	7142	6250	5000	4166	3571	3125

Number of sheep treated on pack size and dose rate.



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## CATTLE PRODUCTS

### ANTHELMINTICS

- Triple Combinations
- Double Combinations
- Single Actives

### MINERALS

- Injections
- Capsules

### THERAPEUTICS

#### PARASITES

- Internal & External Parasite Life Cycles

### DOSING GUIDE



# CATTLE

## Anthelmintics

Triple combination drenches contain three drugs that act in different ways to kill internal roundworms and lungworm. Triple combination products have been shown to significantly slow the development of drench resistance. The sooner combination drenches are used the more effective they will be at preventing resistance development, particularly when used with management strategies that help to preserve sensitive parasites. Veterinarians are best placed to advise on resistance prevention.

### Triple Combinations



#### MATRIX<sup>®</sup> C Hi-Mineral

Active	Minerals	Dose rate	WHP	Controls	Admin

**Actives:** Abamectin, Levamisole,  
Oxfendazole

**Pack size:** 5 L, 10 L & 20 L

Mineralised.  
Ideal quarantine drench.

### Applicators

#### Cattle Oral Gun (30 mL)

Gun size: 30 mL

Code: 149868

Floating Hook Code: 147314

For MATRIX C Hi-Mineral.



Double combination drenches contain two drugs that act in different ways to kill roundworms and lungworm. Other drugs may be added to control other parasites such as liver fluke or tapeworm. It doesn't matter which method of delivery is chosen, as all have been shown to be effective, as long as the right product is chosen for the right situation and instructions for application on the label are followed. To ensure that these drenches are effective for years to come, it is important to use them appropriately and with particular regard to ensuring that sensitive parasites to these drugs remain on the property. Veterinarians are best placed to advise on sustainable use of drenches.

### Double Combinations



#### ECLIPSE® Pour-On

Active	Dose rate	WHP	Rain Fast	Controls	Admin

**Actives:** Abamectin, Levamisole  
**Pack size:** 2.5 L, 5L & 5.5 L

World's first double combination pour-on. Ideal for use in R1 and R2 stock where *Cooperia* and *Ostertagia* control is necessary.



#### ECLIPSE® E Injection

Active	Dose rate	WHP	Safety	Controls	Admin

**Actives:** Eprinomectin, Levamisole  
**Pack size:** 500 mL

World's first double combination injection. Ideal for use in R1 and R2 stock where *Cooperia* and *Ostertagia* control is necessary. Prior to use store in the fridge to maintain excellent efficacy and quality, right up to the expiry date.



#### ECLIPSE® E Injection with B12 & Se

Active	Minerals	Dose rate	WHP	Safety	Controls	Admin

**Actives:** Eprinomectin, Levamisole  
**Pack size:** 500 mL & 3 L (6 x 500 mL)

Vitamin B12 and Se added to ECLIPSE E injection to support growth, immunity and reproduction. Aids in the treatment and prevention of selenium and vitamin B12 (cobalt) deficiency. Prior to use store in the fridge to maintain excellent efficacy and quality, right up to the expiry date.

### Applicators

#### Cattle Pour-On Gun (30 mL)

Gun size: 30 mL  
Code: 126769

For ECLIPSE Pour-On.



#### ECLIPSE E Injector (12 mL)

Gun size: 12 mL  
Code: 149872

For ECLIPSE E Injections.



# CATTLE

## Anthelmintics

In adult cattle *Ostertagia* is the only roundworm that reduces productivity. This means that single active products can be used that target *Ostertagia*. These drugs may also be effective against lungworm and lice. Liver fluke affects adult cattle and drugs may be added to single active products that also target liver fluke. Veterinarians may advise the use of single active products in young stock in some situations to target specific parasites.

### Single Actives



#### EPRINEX® Pour-On

Active	Dose rate	WHP	Rain Fast	Controls	Admin

**Active:** Eprinomectin  
**Pack size:** 250 mL, 1 L, 2.5 L, 5 L & 25 L  
**WHP:** Bobby calf meat: 0 days

Treatment of lactating dairy cattle at calving and/or mid-lactation increases milk solids and can reduce calving to conception time. Eprinomectin is produced by modifying abamectin five-fold to make it more potent and a much better safety profile. Persistent activity against *Ostertagia* and lungworm.



#### GENESIS® Injection with B12 & Selenium

Active	Minerals	Dose rate	WHP	Controls	Admin	Other*

**Active:** Abamectin  
**Pack size:** 4 x 500 mL herd pack  
**WHP:** Sheep meat: 28 days, milk: 35 days

Aids in the treatment and prevention of selenium and vitamin B12 (cobalt) deficiency, to support growth, immunity and reproduction.



#### IVOMEC® Plus Injection

Active	Dose rate	WHP	Controls	Admin

**Actives:** Ivermectin, Clorsulon  
**Pack size:** 500 mL

Ideal dry-off treatment when a flukicide is necessary. Effective against sucking lice.

\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.

## Applicators

### Cattle Pour-On Gun (65 mL)

Gun size: 65 mL  
 Code: 123800

For EPRINEX Pour-On.



### Cattle Injector (12 mL)

Gun size: 12 mL  
 Code: 146575

For IVOMEC & GENESIS Injections.



### Injections



#### COPAJECT

Minerals	WHP	Admin	Others*

**Active:** Calcium copper edetate  
**Dose rate:** 2 mL (over 4 months of age)  
**Pack size:** 200 mL

For the treatment and prevention of copper deficiency in cattle, sheep and deer.



#### MARKS-MIN ZMS with B12

Minerals	WHP	Admin	Other*

**Actives:** Zinc, Manganese, Selenium, Vitamin B12  
**Dose rate:** 1.5 mL/50 kg (<1 year), 1.5 mL/75 kg (1-2 years), 1.5 mL/100 kg (2+ years)  
**Pack size:** 500 mL

Trace minerals to support growth, reproduction and immune defence, with the energy from vitamin B12 for optimum health and performance. DO NOT retreat animals for 8 weeks after last treatment.



#### MARKS-MIN ZMSC with B12

Minerals	WHP	Admin

**Actives:** Zinc, Manganese, Selenium, Copper, Vitamin B12  
**Dose rate:** 1.5 mL/50 kg (<1 year), 1.5 mL/75 kg (1-2 years), 1.5 mL/100 kg (2+ years)  
**Pack size:** 500 mL

Trace minerals to support growth, reproduction and immune defence, with the energy from vitamin B12 for optimum health and performance. DO NOT retreat animals for 8 weeks after last treatment.

*\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.*

### Applicators

#### MARKS-MIN Injectors

Gun size: 5 mL & 12 mL  
 Code: 162045, 162188

For MARKS-MIN products.



#### COPAJECT Injector (5 mL)

Gun size: 5 mL  
 Code: 156287

For COPAJECT product.



# CATTLE

## Minerals

### Capsules



#### COPACAPS

Minerals	WHP	Admin	Others*

**Active:** Cupric oxide  
**Dose rate:** refer to label  
**Pack size:** 50 capsules: 10 g & 20 g  
 32 capsules: 30 g & 36 g

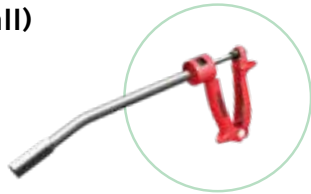
Contain cupric oxide rods inside a gelatine capsule. They can be used for both treatment and prevention of copper deficiency. Administer capsules carefully and with the recommended applicator.

### Applicators

#### Capsule Gun (Small)

Gun size: 10 & 20 g  
 Code: 142936

For COPACAPS.



#### Capsule Gun (Large)

Gun size: 30 & 36 g  
 Code: 142937

For COPACAPS.



## Therapeutics

### Therapeutics



#### BIVATOP® 200

WHP	Admin	Others*

**Actives** Oxytetracycline 200 mg/mL  
**Dose rate:** Long Acting: 1 mL/10 kg (S/C or I/M),  
 Short Acting: 3.3 mL/100 kg (I/V cattle only)  
**Pack size:** 100 mL & 250 mL

A green light, broad spectrum antibiotic with bacteriostatic activity. Effective against a large number of Gram-positive and Gram-negative pathogenic bacteria, certain rickettsiae and mycoplasma.



#### BUSCOPAN® Compositum

WHP	Admin	Others*

**Actives:** Hyoscine-n-butylbromide, Dipyron  
**Dose rate:** refer to label  
**Pack size:** 100 mL

Alleriate pain associated with enteritis and digestive disturbance, diarrhoea, oesophageal obstruction, postparturient relief of pain and functional tympanitis.

### Therapeutics



#### MAMYZIN®

WHP	MILK	Admin	Others*
MEAT 7	See Label	i/m s/c	

**Active:** Penethamate hydriodide  
**Dose rate:** 5 g daily for 1-5 days or alternatively: 10 g (day 1), 5 g (day 2)

**Pack size:** 5 g & 10 g

**Milk WHP:** 48 hours after 5g daily dosing, or 60 hours after last dose when using 10g followed by 5g

Green light, narrow spectrum antibiotic for the treatment of infections caused by Gram-positive bacteria that cause mastitis, respiratory infections, footrot and uterine infections.



#### METACAM® 20 Solution for Injection

Dose rate	WHP	MILK	Admin	Others*
2.5 100KG	MEAT 10	3.5	s/c i/v	

**Active:** Meloxicam 20 mg/mL

**Dose rate:** Adult cattle: 2.5 mL/100 kg, Calves <50 kg: 0.5 mL/ 20 kg

**Pack size:** 50 mL, 100 mL & 250 mL

A long-acting non-steroidal anti-inflammatory drug exerting anti-endotoxic, anti-exudative, antipyretic and analgesic effects. For the alleviation of pain and inflammation associated with mastitis, calf scours, disbudding and respiratory infections.



#### METACAM® 40 Solution for Injection

Dose rate	WHP	MILK	Admin	Others*
1.25 100KG	MEAT 10	3.5	s/c i/v	

**Active:** Meloxicam 40 mg/mL

**Dose rate:** 1.25 mL/100 kg

**Pack size:** 50 mL & 100 mL

A long-acting non-steroidal anti-inflammatory drug exerting anti-endotoxic, anti-exudative, antipyretic and analgesic effects. For the alleviation of pain and inflammation associated with mastitis, calf scours, disbudding and respiratory infections as well as surgical procedures in cattle.



#### PLANIPART®

Dose rate	WHP	MILK	Admin
2 100KG	MEAT 12	2.5	i/m i/v

**Active:** Clenbuterol hydrochloride

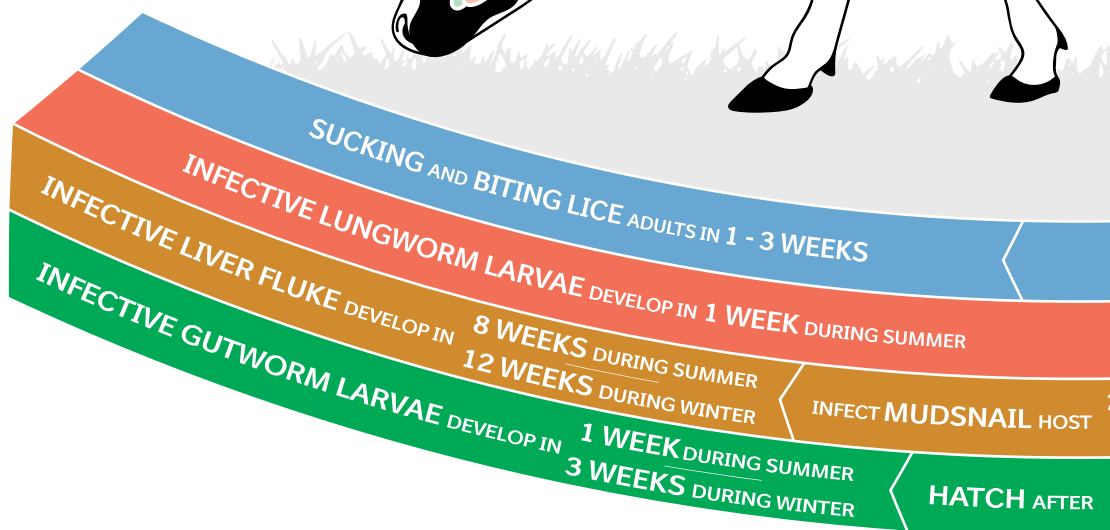
**Dose rate:** 2 mL/100 kg

**Pack size:** 50 mL

For the relaxation of uterine muscle and abolition of contractions. This helps to enable obstetric intervention during difficult calvings and to delay the onset of parturition in cattle when required.

\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.

# PARASITE



## SUCKING AND BITING LICE

*Linognathus vituli*, *Haematopinus* spp., *Solenopotes* spp.  
*Bovicola bovis*.



**DISTRIBUTION:** All over NZ.

**PERFECT CONDITIONS:** Winter coats. Animals almost always have a mixed infection of both biting and sucking lice.

**SIGNS:** Can be seen by the naked eye as little black/brown dots around the eyes and neck. Biting lice are very itchy and cattle will rub on fences and other cattle.

**TREATMENT:** Only a pour-on product has good efficacy against both biting and sucking lice.

**TIPS:** The whole life cycle takes place on the cow. Sucking lice suck blood and so oral and injectable products are often able to kill sucking lice as the drugs in the blood are sucked by the louse. The MLs often have persistent activity. No drug kills the eggs (nits). Adult lice lay low numbers of eggs and so will take a long time to build up a large population meaning that one treatment a season is usually enough to control lice.

**RESISTANCE:** None currently reported in cattle in NZ.

## LUNGWORM

*Dictyocaulus viviparus*



**DISTRIBUTION:** All over NZ.

**PERFECT CONDITIONS:** Warm and wet. Irrigated blocks.

**SIGNS:** Group coughing, faster breathing 3-4 weeks after challenge. Immunity develops quickly but needs regular challenge to maintain. Can be seen the year after a particularly dry summer (low challenge year) or if naïve animals are introduced to infected pasture.

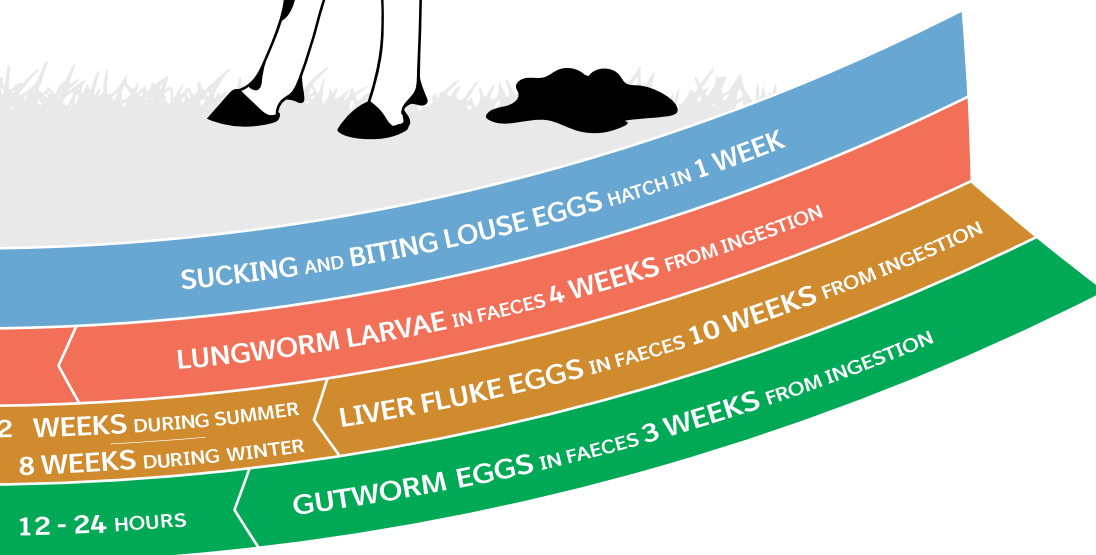
**TREATMENT:** All classes of drench have good efficacy. The MLs have varying levels of persistent activity.

**TIPS:** Larvae hatch from eggs in the cow and so will not show up in faecal egg counts. Disease can be seen before larvae are present in the faeces. Larvae can encyst in the calf over winter.

**RESISTANCE:** No resistance has been reported in NZ.



# LIFE CYCLE



## LIVER FLUKE

*Fasciola hepatica*



**DISTRIBUTION:** Predominates on the west coast of the South Island, although present all over NZ.

**PERFECT CONDITIONS:** Areas with stagnant water. Requires the mud snail to complete its life cycle. The mud snail is found around stagnant water all over NZ.

**SIGNS:** Low growth rates, reduced milk production and fertility. Reported on kill sheets.

**TREATMENT:** Generally, only flukicides will kill liver fluke. These are different from the BZ, Lev and MLs that are used to kill gutworms and lungworm. Some flukicides kill liver fluke from 2 weeks of age and some only kill adult fluke.

**TIPS:** Use knowledge of the lifecycle to determine the likely age of the liver fluke population in infected cattle, bearing in mind withholding periods and administration method, to determine which product to use. Adult liver fluke can live for 2 years in the livers of cattle.

**RESISTANCE:** None currently reported in cattle in NZ.

## GUTWORMS

*Ostertagia ostertagi*, *Cooperia oncophora*, *Trichostrongylus* spp.



**PERFECT CONDITIONS:** Warm and wet. Irrigated blocks.

**SIGNS:** Poor growth rates, reduced milk production. Diarrhoea if heavy challenge.

**TREATMENT:** Cattle under 18 months of age require treatment with a combination drench (more than one drench family). Triple combinations are only available for oral drenching. Single active MLs that do not partition in milk are best for adult dairy cattle.

**TIPS:** All the gutworms encyst over winter inside the calf allowing reinfection in spring. Adult dairy cattle will increase their milk solids on average by 0.03kgMS/day after treatment with EPRINEX Pour-On.

**RESISTANCE:** Significant resistance seen in *Cooperia* against ML and BZ. Resistance in *Ostertagia* against Lev and low levels to BZs and MLs.

# CATTLE

## Dosing Guide

## Dosing Guide



PACK SIZE	DOSE RATE	100 kg	200 kg	300 kg	400 kg	500 kg	600 kg
50 mL	1 mL/50 kg	25	12	8	6	5	4
200 mL	1 mL/50 kg	100	50	33	25	20	16
500 mL	1 mL/35 kg	175	87	58	43	35	29
500 mL	1 mL/50 kg	250	125	83	62	50	41
1 L	1 mL/10 kg	100	50	33	25	20	16
1 L	1 mL/20 kg	200	100	66	50	40	33
2 L	1 mL/35 kg	700	350	233	175	140	116
2.5 L	1 mL/10 kg	250	125	83	62	50	41
2.5 L	1 mL/20 kg	500	250	166	125	100	83
2.5 L	1.5 mL/50 kg	833	416	277	208	166	138
3 L	1 mL/35 kg	1050	525	350	262	210	175
5 L	1 mL/10 kg	500	250	166	125	100	83
5 L	1 mL/20 kg	1000	500	333	250	200	166
5.5 L	1 mL/10 kg	550	275	183	137	110	91
5.5 L	1 mL/20 kg	1100	550	366	275	220	183
10 L	1 mL/10 kg	1000	500	333	250	200	166
10 L	1 mL/20 kg	2000	1000	666	500	400	333
20 L	1 mL/10 kg	2000	1000	666	500	400	333
20 L	1 mL/20 kg	4000	2000	1333	1000	800	666
25 L	1 mL/10 kg	2500	1250	833	625	500	416

Number of cattle treated on pack size and dose rate.



Ensure young stock become future high producers through improved health, growth and energy at:

[futureproducers.co.nz](http://futureproducers.co.nz)   



## EQUINE PRODUCTS

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THERAPEUTICS  
SEDATIVES

## Therapeutics

### Therapeutics



#### PRASCEND® Tablets for Horses

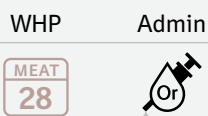


**Active:** Pergolide 1 mg (as pergolide mesylate)  
**Dose rate:** refer to label  
**Pack size:** 60 tablets & 160 tablets

For the control of clinical signs associated with Pituitary Pars Intermedia Dysfunction (PPID) (Equine Cushing's disease) in horses and ponies.



#### METACAM® Oral Suspension for Horses



**Active:** Meloxicam 15 mg/mL  
**Dose rate:** 0.6 mg/kg, once daily for up to 14 days  
**Pack size:** 100 mL

Alleviation of inflammation and relief of pain in both acute and chronic musculoskeletal disorders in horses.



#### METACAM® 20 Solution for Injection



**Active:** Meloxicam 20 mg/mL  
**Dose rate:** Single i/v injection 3 mL/100 kg can continue, 24 hrs later, with METACAM® 15 mg/mL Oral Suspension for Horses  
**Pack size:** 50 mL, 100 mL & 250 mL

Single use. For rapid initiation therapy of musculoskeletal disorders and relief of pain associated with colic.



#### METACAM® 40 Solution for Injection



**Active:** Meloxicam 40 mg/mL  
**Dose rate:** Single i/v injection 1.5 mL/100 kg can continue, 24 hrs later, with METACAM® 15 mg/mL Oral Suspension for Horses  
**Pack size:** 50 mL & 100 mL

Single use. For rapid initiation therapy of musculoskeletal disorders and relief of pain associated with colic.



#### BUSCOPAN® Compositum

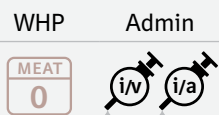


**Actives:** Hyoscine-n-butylbromide, Dipyron  
**Dose rate:** refer to label  
**Pack size:** 100 mL

Treatment of horses with spasmodic colic, gastroenteritis, diarrhoea and oesophageal obstruction.



#### HYONATE®



**Actives:** Sodium hyaluronate  
**Dose rate:** i/v: 4 mL (2 vials-40 mg),  
i/a: 2 mL (1 vial-20 mg)  
**Pack size:** 2 x 2 mL

For the treatment of non-infectious acute synovitis in horses.

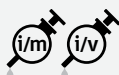
Therapeutics

Therapeutics



**VENTIPULMIN®**  
Bronchodilator for Horses

Admin



**Active:** Clenbuterol hydrochloride  
**Dose rate:** 1.25 mL/50 kg, twice (on first day)<sup>^</sup>  
**Pack size:** 50 mL  
**WHP:** refer to label

For the treatment of all conditions where constriction of the airways occurs. <sup>^</sup>Follow treatment with VENTIPULMIN Oral Bronchodilator for Horses for a minimum period of 5 days.



**VENTIPULMIN®**  
Oral Bronchodilator for Horses

Admin



**Active:** Clenbuterol hydrochloride  
**Dose rate:** 2.5 g/50 kg twice daily, for 10 days  
**Pack size:** 500 g  
**WHP:** refer to label

Relief of bronchospasm and airway obstruction associated with: bacterial infection, during and after the infective phase; bronchitis; bronchopneumonia; respiratory allergies; exercise-induced bronchospasm; and all conditions where narrowing of the small airways is a contributing factor to the problem.

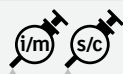


**MAMYZIN®**

WHP

Admin

Others\*



**Active:** Penethamate hydriodide  
**Dose rate:** 5 g daily, for 1-5 days  
**Pack size:** 5 g & 10 g (10 vials per carton)

For the treatment of infections caused by Gram-positive bacteria that cause mastitis, respiratory infections, footrot and uterine infections.

*\*Displayed dose rate, withholding periods, indications and administration route are for this section's species only. Please see product label for other species details.*

Sedatives

Sedatives



**SEDIVET®**

WHP

Admin



**Active:** Romifidine hydrochloride  
**Dose rate:** refer to label  
**Pack size:** 20 mL

For sedation of horses to facilitate handling, examination and treatment, and as a pre-medication agent prior to general anaesthesia. Do not use in pregnant mares.





## COMPANION ANIMAL PRODUCTS

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### PARASITICIDES

Parasiticides  
Deworming Protocols

### THERAPEUTICS

Inflammation & Pain  
Therapeutics  
Antibiotics

The flea lifecycle is comprised of four developmental stages: egg, larva, pupa and adult flea. The time it takes for a new flea to develop can vary from as little as 12 days to as long as 325 days. As flea pupae can remain dormant in the environment for at least 6 months, it may take some time for flea eggs to emerge as adult fleas. Adult fleas, the lifecycle stage you see on the pet, make up just 5% of the total flea population. Ninety-five percent of the population is made up of eggs, larvae and pupae, which can be found in the pet's environment. Flea treatment of all household pets is a year round commitment because fleas can be active in all seasons. When a pet goes outside of the home environment, it can come into contact with fleas from eggs that have been deposited, even several months previously, by untreated pets or wildlife.

**MONTHLY WORMING:** is recommended to help control zoonotic risk from roundworm, and is especially recommended for pets that are considered higher risk (those that meet one or more of the following: have access to the outdoors, live with children, the elderly or immunocompromised, hunt/catch wild prey such as rodents and birds).

## Parasiticides



### NEXGARD® SPECTRA for Cats



**Actives:** Esafoxolaner, eprinomectin, praziquantel  
**Dose rate:** 0.3 mL (0.8–2.4 kg), 0.9 mL (2.5–7.4 kg).  
 For cats over 7.5 kg see pack for details  
**Pack size:** Triple packs

For the treatment, control and prevention of flea, tick, ear mites and worms including tapeworms. NEXGARD SPECTRA for Cats is an all-in-one topical parasiticide that provides broad spectrum protection against both external & internal parasites. Unique applicator ensures complete, accurate and easy dosing. Safe for kittens from 8 weeks of age. Monthly treatments are recommended for the prevention and control of parasite infestations.



### NEXGARD SPECTRA®



**Actives:** Afoxolaner, milbemycin oxime  
**Monthly treatment:** Five dosage strengths: Very Small (2-3.5 kg), Small (3.6-7.5kg), Medium (7.6-15 kg), Large (15.1-30 kg), Extra Large (30.1-60 kg).  
 For over 60 kg, administer the appropriate combination of whole chewables  
**Pack size:** Single & Triple packs

NEXGARD SPECTRA is a delicious, gentle, monthly chew that provides dogs with the most comprehensive parasite protection in a single dose. NEXGARD SPECTRA kills fleas fast, consistently and persistently for the entire duration of the treatment. It treats for ticks and mites, and has the added benefit of protecting against roundworms, hookworms and whipworms. When used monthly, NEXGARD SPECTRA is highly effective in preventing flea tapeworm. As this is an oral treatment, it is not affected by bathing or swimming; it can be given with or without food.



### NEXGARD® Chewables



**Active:** Afoxolaner  
**Monthly treatment:** Four dosage strengths: Very Small (2-4 kg), Small (4.1-10 kg), Medium (10.1-25 kg), Large (25.1-50 kg), for over 50kg, administer the appropriate combination of whole chewables  
**Pack size:** Single & Triple packs

NEXGARD Chewables are a delicious, gentle, monthly chew that provides excellent parasite prevention and control for dogs from fleas, ticks, mites and prevention of flea tapeworm. NEXGARD kills fleas fast, consistently and persistently for the entire duration of the treatment. When used monthly, NEXGARD is highly effective in preventing flea tapeworm. As this is an oral treatment, it is not affected by bathing or swimming; it can be given with or without food.



# COMPANION ANIMAL

## Parasiticides

### Parasiticides



#### BROADLINE® Spot-on Solution for Cats



**Actives:** Fipronil, (S)-methoprene, eprinomectin, praziquantel  
**Dose rate:** 0.3 mL (0.8–2.4 kg), 0.9 mL (2.5–7.4 kg).  
 For cats over 7.4 kg see pack for details  
**Pack size:** Single & Triple packs

For the treatment, prevention and control of flea, tick and biting lice infestations and flea allergy dermatitis, and the treatment and control of roundworms, hookworms, lungworms and tapeworms. An all-in-one topical parasiticide that provides broad spectrum protection against both external & internal parasites. Unique applicator ensures complete, accurate and easy dosing. Safe for kittens from 8 weeks of age. Monthly treatments are recommended for the prevention and control of parasite infestations.



#### FRONTLINE® Plus for Cats



**Actives:** Fipronil, (S)-methoprene  
**Dose rate:** One pipette per cat up to 10 kg  
**Pack size:** Triple & Six packs

FRONTLINE PLUS spot-on solution is a topical application for the treatment of fleas, ticks and biting lice. Monthly treatment is recommended to control and prevent flea infestations. FRONTLINE PLUS kills 98-100% of fleas within 24 hours and will persist against new flea infestations for at least one month. Ticks will be killed within 48 hours for one month. One treatment is effective against biting lice. FRONTLINE PLUS also contains (S)-methoprene which acts as an insect growth inhibitor. It prevents the multiplication of fleas by inhibiting the development of the immature stages of growth (eggs, larvae and pupae) for at least one month. FRONTLINE PLUS has an excellent safety profile, and has been trusted by kiwis for more than 25 years. Safe for use on breeding, pregnant and nursing cats.



#### FRONTLINE® Plus for Dogs



**Actives:** Fipronil, (S)-methoprene  
**Dose rate:** One pipette according to weight: Small (up to 10 kg), Medium (10-20 kg), Large (20-40 kg) & Extra Large (40-60 kg). For dogs over 60 kg administer the appropriate combination of pipettes  
**Pack size:** Triple packs

FRONTLINE PLUS spot-on solution is a topical application for the treatment of fleas, ticks and biting lice. Monthly treatment is recommended to control and prevent flea infestations. FRONTLINE PLUS kills 98-100% of fleas within 24 hours and will persist against new flea infestations for at least one month. Ticks will be killed within 48 hours for one month. One treatment is effective against biting lice. FRONTLINE PLUS also contains (S)-methoprene which acts as an insect growth inhibitor. It prevents the multiplication of fleas by inhibiting the development of the immature stages of growth (eggs, larvae and pupae) for at least one month. FRONTLINE PLUS has an excellent safety profile, and has been trusted by kiwis for more than 25 years. Safe for use on breeding, pregnant and nursing dogs.



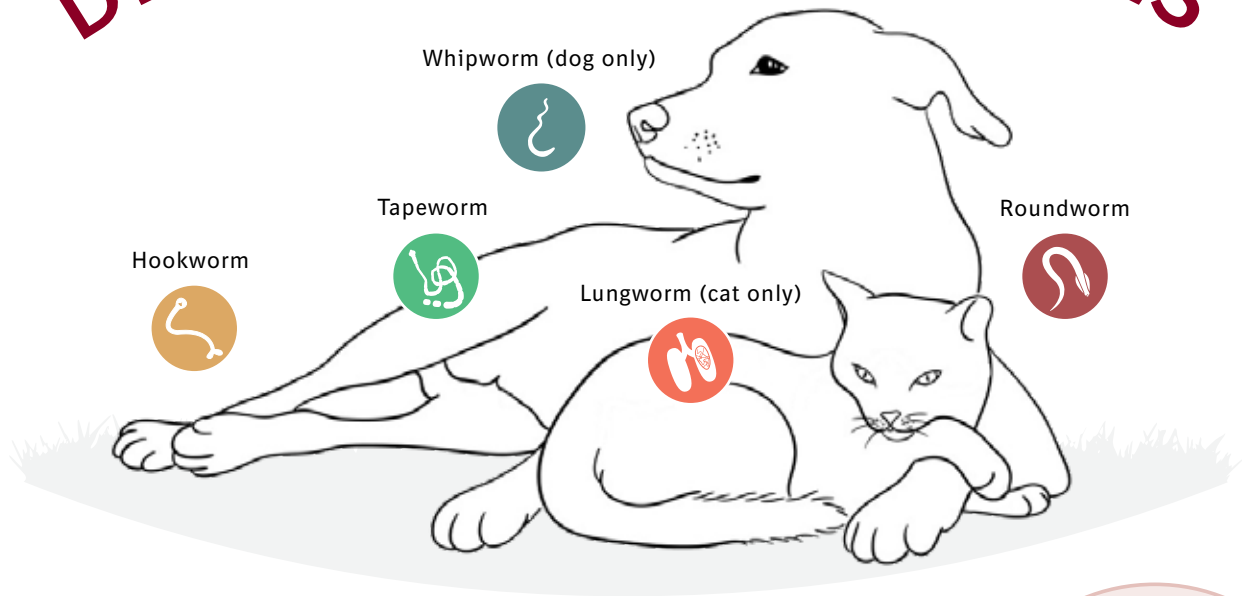
#### FRONTLINE® Spray



**Active:** Fipronil  
**Dose rate:** Apply 3-6 mL/kg, depending on the length of hair, See pack for details  
**Pack size:** 100 mL & 250 mL

FRONTLINE Spray is a topical application for the treatment of flea infestations, ticks, and lice and is ideal for use on kittens and puppies from 2 days old. FRONTLINE Spray kills 98-100% of fleas within 24 hours and will persist against new flea infestations for at least one month. Ticks will be killed within 48 hours for up to 4 weeks. FRONTLINE Spray has an excellent safety profile, and has been trusted by kiwis for more than 25 years. Safe for pregnant and nursing dogs.

# DEWORMING PROTOCOLS



## The importance of pre-patent periods

Most anthelmintics do not have residual activity – they kill worms present at the time of administration but provide no forward protection.

Deworming protocols should therefore be designed to kill newly acquired parasites before they can shed infective forms (eggs or larvae).

**THE DOSING INTERVAL SHOULD BE LESS THAN THE PRE-PATENT PERIOD FOR WORMS OF ZOONOTIC CONCERN.**

### PRE-PATENT PERIOD

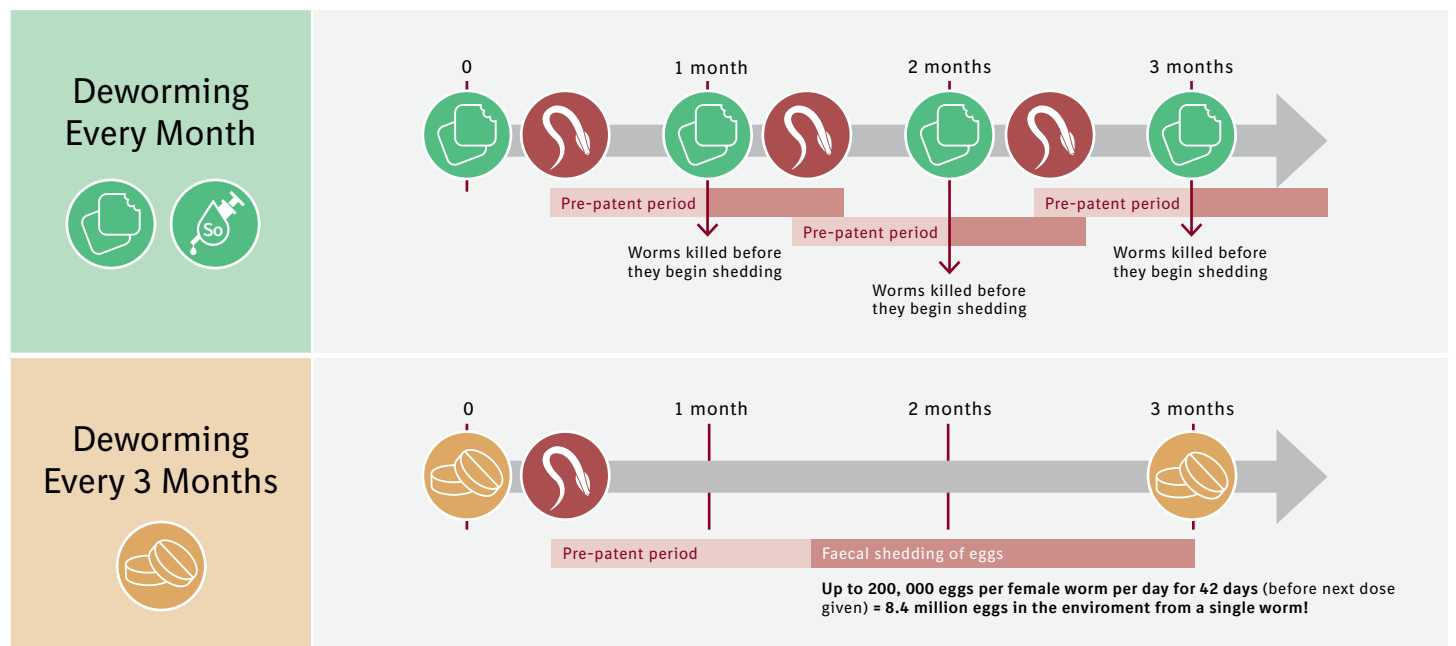
The time period between infestation with a parasite and when infective forms (eggs or larvae) are detectable.

## The significance of pre-patent periods and deworming intervals

e.g. roundworm (*Toxocara canis*)

Pre-patent period – approximately 5 weeks

Monthly deworming eliminates newly acquired roundworms before they begin shedding eggs, reducing environmental contamination and minimising zoonotic risk.

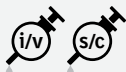


### Inflammation & Pain



#### METACAM® Anti-Inflammatory Injectable for Dogs and Cats

Admin (Dog) Admin (Cat) Registered



**Active:** Meloxicam 5 mg/mL

**Dose rate:** Dogs: 0.4 mL/10 kg (single i/v or s/c)

Cats: 0.3 mL/5 kg (single s/c). See pack for more details

**Pack size:** 10 mL & 20 mL

**Dogs:** Alleviation of inflammation and pain in both acute and chronic musculoskeletal disorders. Reduction of postoperative pain and inflammation following orthopaedic and soft tissue surgery.

**Cats:** Reduction of pain after surgery. Management of febrile conditions in combination with appropriate antibiotics.

Low viscosity solution and low volume so small gauge needle can be used – easy to administer and less painful for the animal. No need to refrigerate.



#### METACAM® Oral Suspension for Cats and Guinea pigs

Admin Flavour Registered



**Active:** Meloxicam 0.5 mg/mL

**Dose rate:** See pack for details

**Pack size:** 3 mL, 15 mL & 30 mL

**Cats:** Alleviation of inflammation and pain in both acute and chronic musculoskeletal disorders such as disco-spondylosis, arthropathy and soft tissue injuries in cats. **Guinea Pigs:** Alleviation of mild to moderate post-operative pain associated with soft tissue surgery, such as castration, in guinea pigs.

Palatable honey flavoured oral suspension.



#### METACAM® Chewable Tablets for Dogs

Admin Flavour Registered



**Active:** Meloxicam 1 mg, 2.5 mg

**Dose rate:** See pack for details

**Pack size:** 84 tablets (7 tablets per blister, 12 blisters per pack)

For the alleviation of inflammation and pain in both acute and chronic musculoskeletal disorders in dogs.

Palatable beef flavoured chewable tablets.

Can be given following METACAM Anti-Inflammatory Injectable.



#### METACAM® Anti-Inflammatory Oral Suspension for Dogs

Admin Flavour Registered



**Active:** Meloxicam 1.5 mg/mL

**Dose rate:** See pack for details

**Pack size:** 10 mL, 32 mL, 100 mL & 180 mL

Alleviation of inflammation and pain in both acute and chronic musculoskeletal disorders such as discospondylosis, arthropathy and soft tissue injuries.

Palatable honey flavoured oral suspension for dogs.

Can be given following METACAM Anti-Inflammatory Injectable.



#### PREVICOX® Tablets for Dogs

Admin Flavour Registered



**Active:** Firocoxib 57 mg, 227 mg

**Dose rate:** 5 mg/kg, once daily

**Pack size:** 60 tablets

A highly selective COX-2 inhibitor for the relief of pain and for the control of inflammation associated with osteoarthritis and other musculoskeletal disorders. PREVICOX is also indicated for the control of post-operative pain associated with surgery; including soft tissue, orthopaedic and dental procedures. Hickory smoke flavoured, quarterable chewable tablet for dogs.

### Therapeutics



#### VETMEDIN® Capsules/Chewable Tablets for Dogs

Admin Flavour Registered



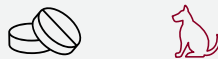
**Active:** Pimobendan 1.25 mg, 2.5 mg, 5 mg  
**Dose rate:** 0.1mg/kg to 0.3mg/kg b.w.  
 twice daily - approximately 12 hours apart  
**Pack size:** 50 tables & 100 capsules

For the treatment of canine congestive heart failure (CHF) originating from dilated cardiomyopathy (DCM) or valvular insufficiency (mitral and/or tricuspid regurgitation). For the treatment of preclinical DCM in large breed dogs. For the treatment of dogs with evidence of increased heart size secondary to the asymptomatic (preclinical) myxomatous mitral valve disease to delay the onset of clinical symptoms of heart failure. To reduce heart size and increase survival times. The ideal dose is 0.25 mg/kg b.w twice daily administered 12 hours apart. Each dose should be given on an empty stomach, and at least one hour before feeding.



#### PEXION® Tablets for Dogs

Admin Registered



**Active:** Imepitoin 100 mg, 400 mg  
**Dose rate:** 10-30 mg/kg,  
 twice daily - approximately 12 hours apart^  
**Pack size:** 100 tablets

^The dose can be increased by 50-100% increments up to a maximum dosage of 30 mg/kg administered twice daily if required. Each tablet can be halved for appropriate dosing according to the individual bodyweight of the dog.

Imepitoin is an antiepileptic agent for use as an aid in the treatment of idiopathic epilepsy in dogs. Imepitoin has a targeted and unique mode of action with a wide safety margin. Plasma drug levels do not need to be monitored and there is no physical dependency or development of tolerance. It can be used in combination with phenobarbital.



#### SEMINTRA® Oral Solution for Cats

Admin Flavour Registered



**Active:** Telmisartan 4 mg/mL  
**Dose rate:** 1 mg/kg (0.25 mL/kg), once daily  
**Pack size:** 30 mL

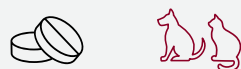
For the reduction of proteinuria in cats with chronic kidney disease. Tasteless solution well accepted by cats. Dose can be administered directly into the mouth or with a small amount of food.

## Antibiotics



#### STOMORGYL™


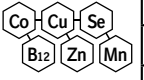





Admin Registered






















**Actives:** Spiramycin, metronidazole  
**Dose rate:** Stomorgyl (2): 1 tablet per 2 kg,  
 Stomorgyl (10): 1 tablet per 10 kg,  
 Stomorgyl (20): 1 tablet per 20 kg  
**Pack size:** 50 tablet (blister pack)










Treatment of infections caused by susceptible aerobic and anaerobic bacteria in dogs and cats. Due to its spectrum of activity and propensity for concentration in oral tissues, the product is particularly active against infections causing oral or dental disease in dogs and cats. These include stomatitis, gingivitis, periodontitis, tooth root abscesses and chelitis. Treat daily for 5-10 days. Daily dose may be divided into 2-3 treatments, or doubled in conditions such as chronic otitis and necrotic cutaneous conditions.

# NOTES

 Actives	 Minerals	Co = Cobalt	B <sub>12</sub> = Vitamin B <sub>12</sub>	 Dose rate (mL/kg b.w)	 WHP (days)	 Safe to use in calves <120 kg	 Rain Fast	 Flavour
		Cu = Copper	Zn = Zinc					
		Se = Selenium	Mn = Manganese					

 Cow	 Horse	 Deer	 Sheep	 Goat	 Swine	 Dog	 Cat	 Guinea pig
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 Flea	 Tick	 Mites	 Lice	 Tapeworm	 Roundworm	 Hookworm	 Whipworm	 Fluke	 Lungworm
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 Capsule	 Granules	 Capsule	 Tablets	 Chew	 Oral	 Spot-on	 Pour-on	 Injection	s/c = subcutaneous i/v = intravenous i/a = intra-articular i/m = intramuscular
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