

## **LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

Box containing 1 blister of 2 tablets  
Box containing 2 blisters of 2 tablets  
Box containing 1 blister of 8 tablets  
Box containing 13 blisters of 8 tablets  
Box containing 52 blisters of 2 tablets

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Cestem flavoured tablets for medium and small dogs

**2. STATEMENT OF ACTIVE AND OTHER SUBSTANCES**

One tablet contains:  
150 mg febantel / 50 mg pyrantel (as embonate) / 50 mg praziquantel

**3. PHARMACEUTICAL FORM**

Tablets.

**4. PACKAGE SIZE**

2 tablets (1 blister)  
4 tablets (2 blisters)  
8 tablets (1 blister)  
104 tablets (13 blisters)  
104 tablets (52 blisters)

**5. TARGET SPECIES**

Dogs (adults and puppies).

**6. INDICATION(S)**

**7. METHOD AND ROUTE(S) OF ADMINISTRATION**

Oral use.  
Read the package leaflet before use.

**8. WITHDRAWAL PERIOD**

**9. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet before use.

**10. EXPIRY DATE**

EXP

Once opened, use within 7 days

**11. SPECIAL STORAGE CONDITIONS**

**12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Disposal: read package leaflet.

**13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, if applicable**

For animal treatment only.

**14. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children

**15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Ceva Animal Health Ltd  
Explorer House  
Mercury Park  
Wycombe Lane  
Wooburn Green  
High Wycombe  
Buckinghamshire  
HP10 0HH  
United Kingdom

**16. MARKETING AUTHORISATION NUMBER(S)**

Vm 15052/4040

**17. MANUFACTURER’S BATCH NUMBER**

Lot

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

Blister of 2 tablets  
Blister of 8 tablets

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Cestem flavoured tablets medium and small dogs  
150 mg febantel / 50 mg pyrantel (as embonate) / 50 mg praziquantel

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**



**3. EXPIRY DATE**

{mm/yyyy}

**4. BATCH NUMBER**

{number}

**5. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

For animal treatment only.

## **B. PACKAGE LEAFLET**

**PACKAGE LEAFLET FOR:**  
Cestem Flavoured tablets for medium and small dogs

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER  
AND OF THE MANUFACTURING AUTHORISATION HOLDER  
RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder:

Ceva Animal Health Ltd  
Explorer House  
Mercury Park  
Wycombe Lane  
Wooburn Green  
High Wycombe  
Buckinghamshire  
HP10 0HH  
United Kingdom

Manufacturer responsible for batch release:

Ceva Santé Animale, Z.I. Très le Bois, 22600 Loudéac, France

Or

Ceva Santé Animale, Boulevard de la communication, Zone autoroutière, 53950  
Louverné France

**2. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Cestem flavoured tablets for medium and small dogs  
Febantel / Pyrantel (as embonate) / Praziquantel

**3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER  
INGREDIENT(S)**

Each tablet contains:

150 mg febantel / 50 mg pyrantel (as embonate) / 50 mg praziquantel

Yellow brown, oval, divisible tablet, with liver flavouring.

**4. INDICATION(S)**

Treatment of mixed infections by adult cestodes and nematodes of the following species:

Nematodes:

Ascarids: *Toxocara canis*, *Toxascaris leonina* (adult and late immature forms).

Hookworms: *Uncinaria stenocephala*, *Ancylostoma caninum* (adults).

Whipworms: *Trichuris vulpis* (adults).

Cestodes:

Tapeworms: *Echinococcus* spp., *Taenia* spp., *Dipylidium caninum* (adult and immature forms).

## 5. CONTRAINDICATIONS

Do not use in cases of hypersensitivity to the active substances or to any of the excipients.

## 6. ADVERSE REACTIONS

Gastro-intestinal signs (vomiting, diarrhoea), possibly associated with lethargy, have been observed very rarely in spontaneous reports.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports)

If you notice any serious effects or other effects not mentioned in this leaflet, please inform your veterinary surgeon.

## 7. TARGET SPECIES

Dogs (adults and puppies).

## 8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION

Oral use.

15 mg/kg bodyweight febantel, 5 mg/kg pyrantel (as embonate) and 5 mg/kg praziquantel. This is equivalent to 1 tablet per 10 kg bodyweight, in one administration.

Dosages are as follows:

Body weight (kg)	Tablet quantity
3-5	½
>5-10	1
>10-15	1 ½
>15-20	2

The tablets can be given to the dog with or without food. No starvation is needed before or after treatment.

To ensure administration of a correct dose, body weight should be determined as accurately as possible.

The dosing program should be established by the veterinary surgeon.

As a general rule, puppies should be treated at 2 weeks of age and every 2 weeks until 12 weeks of age. Thereafter they should be treated at 3 month intervals. It is advisable to treat the bitch at the same time as the puppies.



For the control of *Toxocara canis*, nursing bitches should be dosed 2 weeks after giving birth and every two weeks until weaning.

For routine worm control adult dogs should be treated every 3 months.

In case of confirmed single infestation by cestode or by nematode, a monovalent product containing a cestocide or a nematocide alone should be preferred.

For routine treatment a single dose is recommended.

In the event of heavy roundworm infestation a repeat dose should be given after 14 days.

If an infestation caused by *Echinococcus (E.granulosus)* is detected in dogs, a repetition of the treatment is recommended for safety purpose.

## **9. ADVICE ON CORRECT ADMINISTRATION**

## **10. WITHDRAWAL PERIOD**

## **11. SPECIAL STORAGE PRECAUTIONS**

Keep out of the sight and reach of children.

Return any halved tablet to the opened blister and use within 7 days.

This veterinary medicinal product does not require any special storage conditions.

## **12. SPECIAL WARNING(S)**

### **Special warnings for each target species**

Parasite resistance to any particular class of anthelmintic may develop following frequent, repeated use of an anthelmintic of that class.

Fleas serve as intermediate hosts for one common type of tapeworm – *Dipylidium caninum*. Tapeworm infestation may reoccur unless control of intermediate hosts such as fleas, mice etc is undertaken.

### **Special precautions for use in animals**

The product is not recommended for use in puppies of less than 3 kg bodyweight.

### **Special precautions to be taken by the person administering the veterinary medicinal product to animals**

Wash hands after administration to the animal.

In case of accidental ingestion, seek medical advice immediately and show the package leaflet or the label to the physician.

People with known hypersensitivity to any of the ingredients should avoid contact with the veterinary medicinal product.

### **Use during pregnancy or lactation**

Do not use in pregnant bitches during the first 4 weeks of pregnancy.

The product may be used during lactation.

### **Interaction with other medicinal products and other forms of interaction**

Do not use simultaneously with piperazine, as the anthelmintic effects of pyrantel and piperazine may be antagonized.

Plasma concentrations of praziquantel may be decreased by concomitant administration with drugs that increase the activity of cytochrome P-450 enzymes (e.g. dexamethasone, phenobarbital).

Concurrent use with other cholinergic compounds can lead to toxicity.

### **Overdose (symptoms, emergency procedures, antidotes)**

In safety studies single doses of 5 times (4 times in very young puppies) the recommended dose or greater gave rise to occasional vomiting.

### **Other precautions**

Since it contains praziquantel, the product is effective against *Echinococcus* spp. which do not occur in all EU member states but are becoming more common in some. Echinococcosis represents a hazard for humans. As Echinococcosis is a notifiable disease to the World Organisation for Animal Health (OIE), specific guidelines on the treatment and follow-up, and on the safeguard of persons, need to be obtained from the relevant competent authority.

## **13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIAL, IF ANY**

Any unused veterinary medicinal or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

## **14. PID LINK (Do not print heading)**

*[The following statement must be included where reference to the European Union Product Database is included on the product information. This statement is relevant to both UK(GB) and UK(NI) products:]*

Find more product information by searching for the 'Product Information Database' on [www.gov.uk](http://www.gov.uk).

## **15. OTHER INFORMATION**

The tablets are flavoured and consequently taken by most dogs voluntarily.

### **Pharmacodynamic properties**

In this fixed combination pyrantel and febantel act against all relevant nematodes (ascarids, hookworms, and whipworms) in dogs. In particular the activity spectrum covers *Toxocara canis*, *Toxascaris leonina*, *Uncinaria stenocephala*, *Ancylostoma caninum* and *Trichuris vulpis*. This combination shows synergistic activity in the case of hookworms and febantel is effective against *T. vulpis*.

The spectrum of activity of praziquantel covers all important cestode species in dogs, in particular *Taenia* spp, *Dipylidium caninum*, *Echinococcus granulosus* and *Echinococcus multilocularis*. Praziquantel acts against all adult and immature forms of these parasites.

Praziquantel is very rapidly absorbed through the parasite's surface and distributed throughout the parasite. Both *in vitro* and *in vivo* studies have shown that praziquantel causes severe damage to the parasite integument, resulting in the contraction and paralysis of the parasites. There is an almost instantaneous tetanic

contraction of the parasite musculature and a rapid vacuolisation of the syncytial tegument. This rapid contraction has been explained by changes in divalent cation fluxes, especially calcium.

Pyrantel acts as a cholinergic agonist. Its mode of action is to stimulate nicotinic cholinergic receptors of the parasite, induce spastic paralysis of the nematodes and thereby allow removal from the gastro- intestinal (GI) system by peristalsis.

Within the mammalian system febantel undergoes ring closure forming fenbendazole and oxfendazole. It is these chemical entities which exert the anthelmintic effect by inhibition of tubulin polymerisation. Formation of microtubules is thereby prevented, resulting in disruption of structures vital to the normal functioning of the helminth. Glucose uptake, in particular is affected, leading to a depletion in cell ATP. The parasite dies upon exhaustion of its energy reserves, which occurs 2-3 days later.

### **Pharmacokinetic particulars**

After oral administration to dogs, praziquantel is extensively and quickly absorbed from the gastro-intestinal tract. Maximum plasma concentration of 752 µg/L is obtained in less than 2 hours. It is rapidly and extensively metabolised in the liver into hydroxylated derivatives of the parent compound, then rapidly eliminated, mainly in urine.

After oral administration to dogs, febantel is moderately absorbed from the gastro-intestinal tract. Febantel is rapidly metabolised in the liver into fenbendazole and its hydroxy and oxidative derivatives like oxfendazole. Maximum plasma concentration of fenbendazole (173 µg/L) is obtained after about 5 hours. Maximum plasma concentration of oxfendazole (147 µg/L) is obtained after about 7 hours. The excretion occurs mainly in the faeces.

After oral administration to dogs, pyrantel embonate is poorly absorbed. Maximum plasma concentration of 79 µg/L is obtained after about 2 hours. It is rapidly and extensively metabolised in the liver, then rapidly excreted, mainly in the faeces (the unchanged form) and in urine (the metabolites).

### **Pack sizes:**

Box containing 1 blister of 2 tablets  
Box containing 2 blisters of 2 tablets  
Box containing 1 blister of 8 tablets  
Box containing 13 blisters of 8 tablets  
Box containing 52 blisters of 2 tablets

Not all pack sizes may be marketed.

*Gavin Hall*  
Approved: 22 June 2024