

# Summary of Product Characteristics

## 1 NAME OF THE VETERINARY MEDICINAL PRODUCT

Drontal Plus Flavour Tablets for Dogs

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

### Each tablet contains: mg per tablet

Febantel	150.0
Pyrantel embonate	144.0
Praziquantel	50.0

### Excipients

Artificial beef flavour, irradiated 116.5

For the full list of excipients see section 6.1.

## 3 PHARMACEUTICAL FORM

Tablet.

A light brown to brown, round, flat tablet, cross scored on one side for oral administration to dogs.

## 4 CLINICAL PARTICULARS

### 4.1 Target Species

Dogs.

### 4.2 Indications for use, specifying the target species

For the control of the following gastrointestinal tapeworms and roundworms in dogs and puppies.

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

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

Whipworms: *Trichuris vulpis* (adults)

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

### 4.3 Contraindications

Do not use simultaneously with piperazine compounds.

### 4.4 Special warnings for each target species

As a precautionary measure to prevent establishment of *Echinococcus multilocularis* in the UK and Ireland it is recommended that all dogs and cats entering the country be treated with praziquantel.

Fleas serve as intermediate hosts for one common type of tapeworm-*Dipylidium caninum*. Tapeworm infestation is certain to re-occur unless control of intermediate hosts such as fleas, mice etc is undertaken.

### 4.5 Special precautions for use

#### Special precautions for use in animals

Any part used tablet should be discarded

Consult a veterinary surgeon before treating pregnant animals for roundworms.

Do not exceed the stated dose when treating pregnant bitches.

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

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

In the interests of good hygiene, persons administering the tablet directly to the dog or by adding it to the dog's food, should wash their hands afterwards.

#### **4.6 Adverse reactions (frequency and seriousness)**

In very rare cases slight and transient digestive tract disorders such as vomiting and/or diarrhoea may occur. In individual cases these signs can be accompanied by nonspecific signs such as lethargy, anorexia or hyperactivity.

#### **4.7 Use during pregnancy, lactation or lay**

Consult a veterinary surgeon before treating pregnant animals for roundworms.

The product may be used during lactation (see Section 4.9 below).

#### **4.8 Interaction with other medicinal products and other forms of interactions**

Do not use simultaneously with piperazine compounds.

Concurrent use with other cholinergic compounds is not recommended.

#### **4.9 Amounts to be administered and administration route**

The recommended dose rates are: 15 mg/kg bodyweight febantel, 14.4 mg/kg pyrantel and 5 mg/kg praziquantel. This is equivalent to 1 tablet per 10 kg (22 lbs) bodyweight.

##### Puppies and Small Dogs:

3-5 kg bodyweight = ½ tablet

>5-10 kg bodyweight = 1 tablet

##### Medium Dogs:

>10-15 kg bodyweight = 1 ½ tablets

>15-20 kg bodyweight = 2 tablets

>20-25 kg bodyweight = 2 ½ tablets

>25-30 kg bodyweight = 3 tablets

##### Large Dogs:

>30-35 kg bodyweight = 3 ½ tablets

>35-40 kg bodyweight = 4 tablets

For oral administration, the tablets can be given to the dog or disguised in food. No starvation is needed before, or after, treatment.

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. Not for use in dogs weighing less than 3 kg.

For the control of *Toxocara*, 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.

For routine treatment a single dose is recommended.

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

#### **4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary**

The product is well tolerated in dogs. In safety studies doses of 5 x or greater gave rise to occasional vomiting.

**4.11 Withdrawal period(s)**

Not applicable.

**5 PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES**

This product contains anthelmintics active against gastrointestinal roundworms and tapeworms. The product contains three active substances:

- 1) Febantel, a probenzimidazole,
- 2) Pyrantel embonate (pamoate) a tetrahydropyrimidine derivative,
- 3) Praziquantel, a partially hydrogenated pyrazinoisoquinoline derivative.

ATC VetCode: QP52AF30

**5.1 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 vivo* and *in vitro* studies have shown that praziquantel causes severe damage to the parasite integument, resulting in contraction and paralysis. 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 polymetisation. 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.

**5.2 Pharmacokinetic particulars**

No data available.

**6 PHARMACEUTICAL PARTICULARS****6.1 List of excipients**

Artificial beef flavour, irradiated  
 Maize starch  
 Lactose monohydrate  
 Microcrystalline cellulose  
 Povidone K25  
 Magnesium stearate  
 Sodium laurilsulfate  
 Silica colloidal anhydrous

**6.2 Major incompatibilities**

Not applicable.

**6.3 Shelf-life**

Shelf-life of the veterinary medicinal product as packaged for sale: 5 years.

#### **6.4 Special precautions for storage**

Do not store above 25°C. Any part used tablets should be discarded.

#### **6.5 Nature and composition of immediate packaging**

Container: Polyethylene-coated aluminium blister.  
Container colour: White  
Container sizes: Cartons containing 2, 8, 24 and 104 tablets.

Not all pack sizes may be marketed.

#### **6.6 Special precautions for the disposal of unused veterinary medicinal products or waste materials derived from the use of such products**

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

### **7 MARKETING AUTHORISATION HOLDER**

Vetoquinol SA  
Magny-Vernois  
70200 Lure  
France

### **8 MARKETING AUTHORISATION NUMBER(S)**

VPA10521/011/001

### **9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 25 January 2010  
Date of last renewal: 21 February 2014

### **10 DATE OF REVISION OF THE TEXT**

October 2020