

#### United Kingdom Veterinary Medicines Directorate Woodham Lane New Haw Addlestone Surrey KT15 3LS

## NATIONAL PROCEDURE

#### PUBLICLY AVAILABLE ASSESSMENT REPORT FOR A VETERINARY MEDICINAL PRODUCT

Chanotal 230/20 mg Flavoured Film-Coated Tablets for Cats Dinelix 230/20 mg Flavoured Film-Coated Tablets for Cats Praziworm 230/20 mg Flavoured Film-Coated Tablets for Cats Rofectan 230/20 mg Flavoured Film-Coated Tablets for Cats

Date Created: March 2021

Application for National Procedure Publicly Available Assessment Report



#### **PRODUCT SUMMARY**

Name, strength and pharmaceutical form	Chanotal 230/20 mg Flavoured Film-Coated Tablets for Cats
	Dinelix 230/20 mg Flavoured Film-Coated Tablets for Cats
	Praziworm 230/20 mg Flavoured Film-Coated Tablets for Cats
	Rofectan 230/20 mg Flavoured Film-Coated Tablets for Cats
Applicant	C&H Generics Ltd
	C/o Michael McEvoy and Co
	Seville House
	New Dock Street
	Galway
	Ireland
Active substance	Pyrantel embonate
	Praziquantel
ATC Vetcode	QP52AA51
Target species	Cats
Indication for use	For the treatment of mixed infections caused by the following gastrointestinal roundworms and tapeworms:
	<b><u>Roundworms:</u></b> Toxocara cati, Toxascaris leonina,
	<b><u>Tapeworms:</u></b> Dipylidium caninum, Taenia taeniaeformis, Echinococcus multilocularis.

Application for National Procedure Publicly Available Assessment Report

# **MODULE 2**

The Summary of Product Characteristics (SPC) for this product is available on the Product Information Database of the Veterinary Medicines Directorate.

(www.gov.uk/check-animal-medicine-licensed)

Application for National Procedure Publicly Available Assessment Report

# MODULE 3

## PUBLIC ASSESSMENT REPORT

Legal basis of original application	Generic 'hybrid' applications in accordance with Article 13 (3) of Directive 2001/82/EC as amended.
Date of conclusion of the procedure	12/01/2021

# I. SCIENTIFIC OVERVIEW

These were applications for 'hybrid' products, submitted under Article 13 (3) of Directive 2001/82/EC as amended. These were determined to be generic 'hybrid' applications, because bioequivalence could not be demonstrated or inferred through bioavailability studies, due to limited systemic absorption. The reference product is Drontal Cat Tablets (now Drontal Cat Film-coated Tablets), which has been authorised in the UK since August 1994. The dossier was previously assessed under a Mutual Recognition Procedure for Prazitel 230/20 mg Flavoured Film-Coated Tablets for Cats, and via TermaWorm Tablets for Cats and Kittens 230/20 mg, and EziWormer Cats and Kittens 230/20 mg Flavoured Tablets, authorised in May 2016, via national procedures. Data for the current applications were previously assessed for these products.

The products contain 230 mg pyrantel embonate and 20 mg praziquantel per tablet. The proposed indication is for treatment of mixed infections with roundworms (*Toxocara cati, Toxascaris leonina*) and tapeworms (*Dipylidium caninum, Taenia taeniaeformis, Echinococcus multilocularis*) in cats. The recommended dose is 20 mg/kg pyrantel (57.5 mg/kg pyrantel embonate) and 5 mg/kg praziquantel, equivalent to one tablet per 4 kg bodyweight, as a single oral administration.

The product is produced and controlled using validated methods and tests which ensure the consistency of the product released on the market. It has been shown that the product can be safely used in the target species, any reactions observed are indicated in the SPC.<sup>1</sup> The product is safe for the user, and for the environment, when used as recommended. Suitable warnings and precautions are indicated in the SPC. The efficacy <sup>2</sup> of the product was demonstrated according to the claims made in the SPC. The overall benefit/risk analysis is in favour of granting a marketing authorisation.

<sup>&</sup>lt;sup>1</sup> SPC – Summary of product Characteristics.

<sup>&</sup>lt;sup>2</sup> Efficacy – The production of a desired or intended result.

# II. QUALITATIVE AND QUANTITATIVE PARTICULARS OF THE CONSTITUENTS

### II.A. Composition

The product contains pyrantel embonate and praziquantel, and the excipients as follows:

<u>Core tablet:</u> Maize starch Microcrystalline cellulose Crospovidone Magnesium stearate Colloidal anhydrous silica

<u>Film coat</u> Grilled meat flavour Opadry Complete Film Coating System 03F28415 White consisting of HPMC 2910/Hypromellose (E464), Macrogol/PEG 4000 (E1521), Titanium Dioxide (E171).

The container/closure system consists of individual blisters made up of a PVC/PE/PCTFE white opaque copolymer and a 20µm heat seal lacquer/aluminium containing 1, 2, 4, 6, or 8 tablets. Or, Individual blisters made up of 45µm PVC/aluminium/orientated polyamide and a 20µm heat seal lacquer/aluminium containing 1, 2 or 8 tablets. The blisters are packed into cartons containing either: 1, 2, 4, 6, or 8 tablets.

The particulars of the containers and controls performed are provided and conform to the regulation. The choice of the formulation and the absence of preservative are justified.

The product is an established pharmaceutical form, and its development is adequately described in accordance with the relevant European guidelines.

# *II.B.* Description of the Manufacturing Method

The product is manufactured fully in accordance with the principles of good manufacturing practice from licensed manufacturing sites. The manufacturing method consists of the dissolution and addition of components, sifting, and compression, followed by packaging of the products.

Process validation data on the product have been presented in accordance with the relevant European guidelines.

The product is manufactured in accordance with the European Pharmacopoeia and relevant European guidelines.

## **II.C.** Control of Starting Materials

The active substances are pyrantel embonate and praziquantel, established active substances described in the European Pharmacopoeia (Ph. Eur). The active substances are manufactured in accordance with the principles of good manufacturing practice.

The active substance specification is considered adequate to control the quality of the material. Batch analytical data demonstrating compliance with this specification have been provided. Acceptable Certificates of Suitability were provided.

All excipients are described in the Ph, Eur, apart from the filming and the grilled meat flavour, for which acceptable documentation was provided.

Packaging complies with Ph. Eur monographs or relevant specifications.

#### II.C.4. Substances of Biological Origin

There are no substances within the scope of the TSE Guideline present or used in the manufacture of this product.

#### II.D. Control Tests Carried Out at Intermediate Stages of the Manufacturing Process

Not applicable.

#### *II.E.* Control Tests on the Finished Product

The finished product specification controls the relevant parameters for the pharmaceutical form. The tests in the specification, and their limits, have been justified and are considered appropriate to adequately control the quality of the product. Satisfactory validation data for the analytical methods have been provided. Batch analytical data from the proposed production site have been provided demonstrating compliance with the specification. Control tests on the finished product are those for: appearance, identification of active substances and components, weight, dissolution and microbial purity.

#### II.F. Stability

Stability data on the active substances have been provided in accordance with applicable European guidelines, demonstrating the stability of the active substance when stored under the approved conditions.

Stability data on the finished product have been provided in accordance with applicable European guidelines, demonstrating the stability of the product throughout its shelf life when stored under the approved conditions.

# G. Other Information

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

This veterinary medicinal product does not require any special temperature storage restrictions.

Unused halved tablets should be discarded.

Do not remove tablets from blister packaging until required for use. Keep blister in outer carton.

# III. SAFETY AND RESIDUES DOCUMENTATION (PHARMACO-TOXICOLOGICAL)

The applicant states that the products are quantitatively and qualitatively similar to the reference product. A bioequivalence study comparing the reference product with the proposed product was submitted, which is reported in Part IV. Claims have been made that bioequivalence to the reference product has been demonstrated and therefore no pharmacological or toxicological data were submitted. A user safety risk assessment and environmental risk assessment were submitted.

#### III.A Safety Documentation

#### User Safety

A user risk assessment was provided in compliance with the relevant guideline.

Warnings and precautions as listed on the product literature are adequate to ensure safety to users of the product. Therefore, the following applicant's user recommendations are appropriate:

In the interests of good hygiene, persons administering the tablets directly to the cat, or by adding them to the cat's food, should wash their hands afterwards. In case of accidental ingestion, seek medical advice and show the package leaflet to the physician.

#### Other precautions:

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.

#### Environmental Safety

The Environmental Risk Assessment (ERA) was carried out in accordance with VICH and CVMP guidelines.

#### Phase I:

The product will only be used in non-food animals and as a result environmental exposure will be low. A Phase II ERA was not required.

#### **Residue Studies**

No residue depletion studies were conducted due to the nature of the application, which is for a tablet in non-food producing animals.

#### IV. CLINICAL DOCUMENTATION

#### **IV.I.** Pre-Clinical Studies

#### Pharmacology

the following was claimed by the applicant with regard to reference and proposed products:

Both products are of the same qualitative and quantitative composition in terms of active substances, containing 230 mg of pyrantel embonate and 20 mg of praziquantel per tablet.

The two products are of the same pharmaceutical form, tablets for oral administration.

The products can be considered bioequivalent.

Pharmacodynamic tests were not required.

#### Pharmacokinetics

A bioequivalence study comparing the reference and proposed products was submitted. This was a single dose, multi-site, balanced and randomised cross-over study, with a washout period of 14 days between treatments. 24 cats of varying age and weight but equivalent to or greater that 2.5 kg were enrolled in the study and divided into groups, 6 males and 6 females per group. The animals were administered with either product, according to bodyweight, and then with the alternate product after the washout period. Blood tests were taken at appropriate time points. No adverse reactions occurred due to administration

of the products. Bioequivalence was partially confirmed by the study, due to the nature of the products, but it was noted that:

- The test and reference products could be considered equivalent with respect to systemic availability (AUC<sub>last</sub>) and maximum concentration of praziquantel,
- The test product could be considered suprabioavailable to the reference product with respect to hydroxy-praziquantel,
- Pyrantel is poorly soluble in water leading to low absorption from the gastrointestinal tract, with a high proportion of the administered dose remaining in the GIT to act 'locally'. Therefore, use of plasma pharmacokinetic (PK) data to conclude on efficacy of the pyrantel component of the product may not be appropriate.

Acceptably widened acceptance limits were permitted and justified where appropriate. Along with a dissolution study which successfully compare the proposed product with the reference product, and published literature as further supporting data, bioequivalence was accepted, taking all the data into account.

#### Tolerance in the Target Species

The proposed and reference product were considered essentially similar. The product literature accurately reflects the type and incidence of adverse effects which might be expected. Additional data for the proposed product was added, advising against the use of the product in cats under 1 kg body weight.

#### Resistance

Resistance in relation to the proposed product is considered to be no different to that of the reference product. Adequate warnings and precautions appear on the product literature.

#### **IV.II. Clinical Documentation**

Due to the nature of the applications and the data provided, no further assessment was required.

#### V OVERALL CONCLUSION AND BENEFIT- RISK ASSESSMENT

The data submitted in the dossier demonstrate that when the product is used in accordance with the Summary of Product Characteristics, the benefit/risk profile of the products is favourable.

Application for National Procedure Publicly Available Assessment Report

# MODULE 4

# POST-AUTHORISATION ASSESSMENTS

The SPC and package leaflet may be updated to include new information on the quality, safety and efficacy of the veterinary medicinal product. The current SPC is available on the Product Information Database of the Veterinary Medicines Directorate website.

(www.gov.uk/check-animal-medicine-licensed)

The post-authorisation assessment (PAA) contains information on significant changes which have been made after the original procedure which are important for the quality, safety or efficacy of the product.

The PAA for this product is available on the Product Information Database of the Veterinary Medicines Directorate website.

(www.gov.uk/check-animal-medicine-licensed)