

# **Freedom of Information Summary**

**NADA 121-473**

## **Supplemental New Animal Drug Application**

Intervet Inc.  
405 State Street  
PO Box 318  
Millsboro, DE 19966-0318

PANACUR<sup>®</sup>-C (fenbendazole) Granules 22.2%

This supplement provides for a change from prescription (Rx) to OTC status for fenbendazole granules 22.2% packets to be marketed under the trade name PANACUR<sup>®</sup>-C.

## 1. GENERAL INFORMATION

**Supplemental New Animal Drug Application No.:** 121-473

**Sponsor:** Intervet Inc.  
405 State Street  
PO Box 318  
Millsboro, DE 19966-0318

**Generic Name of Drug:** Fenbendazole

**Trade Name:** PANACUR<sup>®</sup>-C

**Marketing Status:** Over-the-Counter (OTC)

**Effect of Supplement:** This supplement provides for a change from prescription (Rx) to OTC status for fenbendazole granules 22.2% packets to be marketed under the trade name PANACUR<sup>®</sup>-C. The jar presentation (Panacur<sup>®</sup>) will remain prescription (Rx) as it is also labeled for use in other species of carnivorous/omnivorous animals. The jar presentation will continue to be marketed under the Panacur<sup>®</sup> trade name.

## 2. INDICATIONS FOR USE

PANACUR<sup>®</sup>-C granules are indicated for use in adult dogs (including pregnant bitches) and puppies, six weeks of age or older, for the treatment and control of roundworms (*Toxocara canis*, *Toxascaris leonina*), hookworms (*Ancylostoma caninum*, *Uncinaria stenocephala*), whipworms (*Trichuris vulpis*) and tapeworms (*Taenia pisiformis*).

## 3. DOSAGE FORM

Granules 22.2% (222 mg/g) for oral use

## 4. ROUTE OF ADMINISTRATION

PANACUR<sup>®</sup>-C granules should be mixed with a small amount of the usual food. Make sure the dog eats all of the medicated food. Dry dog food may need to be moistened to aid mixing.

## 5. RECOMMENDED DOSAGE

The daily dose for PANACUR<sup>®</sup>-C is 50 mg/kg (22.7 mg/lb.) of body weight. PANACUR<sup>®</sup>-C is packaged in three packet sizes (1g, 2g and 4g) for administration based on the weight of the dog (see Dosing Table below). Weigh the dog to make sure the right size and number of packets are used. If the dog's weight is in-between the suggested dosing sizes, it is safe to use the next higher size. For example, a 15-pound dog should be treated with the 2-gram packet. Packet size is the daily dose and the dog must be treated with this dose for three (3) days in a row.

**Dosing Table**

<b>Dog Weight</b>	<b>Packet Size</b>
10 pounds	1 gram
20 pounds	2 gram
30 pounds	1 gram + 2 gram
40 pounds	4 gram
50 pounds	1 gram + 4 gram
60 pounds	2 gram + 4 gram
80 pounds	Two 4 gram
Over 80 pounds	Use combinations to obtain recommended daily dose.

**6. EFFECTIVENESS**

The effectiveness of the product is not affected by this supplement. Refer to the FOI Summary for the original approval dated 27 October 1983.

**7. SAFETY**

The safety of this product is not affected by this supplement. Refer to the FOI Summary for the original approval dated 27 October 1983.

**8. HUMAN SAFETY**

Data on human safety pertaining to the consumption of drug residues in food were not required for approval of this supplemental NADA. The product is labeled for use in dogs, which are non-food animals.

**9. AGENCY CONCLUSIONS**

The data in support of this NADA comply with the requirements of Section 512 of the Act and Part 514 of the implementing regulations. The data demonstrate that Panacur (fenbendazole) Granules 22.2%, when used under labeled conditions is safe and effective.

At the time of original approval this drug product received prescription status because of concern that fenbendazole may have some undiscovered hepatotoxic effects in dogs. This concern was based on reports of liver disease associated with the use of oxibendazole and mebendazole in dogs. The restriction to prescription status was intended to assist in timely notification/documentation of such adverse reactions should they occur. Post-approval marketing experience has not demonstrated a pattern of liver disease associated with the use of Panacur (fenbendazole) Granules 22.2% in dogs. Since the safety concern has been satisfied, and adequate directions for safe and effective use can be written for the layman, there is no longer a need for prescription status for use of this product in dogs.

## 10. LABELING

PANACUR<sup>®</sup>-C – 1-gram packet label  
PANACUR<sup>®</sup>-C – 3 x 1-gram box label  
PANACUR<sup>®</sup>-C – 2-gram packet label  
PANACUR<sup>®</sup>-C – 3 x 2-gram box label  
PANACUR<sup>®</sup>-C – 4-gram packet label  
PANACUR<sup>®</sup>-C – 3 x 4-gram box label