

CENTRAGARD- eprinomectin and praziquantel solution
Boehringer Ingelheim Animal Health USA Inc.

Centragard™
(eprinomectin and praziquantel transdermal solution)
FOR CATS

CAUTION

Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION

CENTRAGARD is a transdermal solution containing eprinomectin and praziquantel available in 0.3 mL and 0.9 mL unit applicators to treat cats from 1.8 lbs to 33 lbs. Each mL of CENTRAGARD contains 4 mg of eprinomectin and 83 mg of praziquantel, as well as the inactive ingredients (dimethyl isosorbide, glycerol formal, and butylated hydroxytoluene). Eprinomectin belongs to the avermectin class of anthelmintics and is a mixture of homologous components referred to as eprinomectin B1a and B1b. Praziquantel is a pyrazinoisoquinoline anthelmintic.

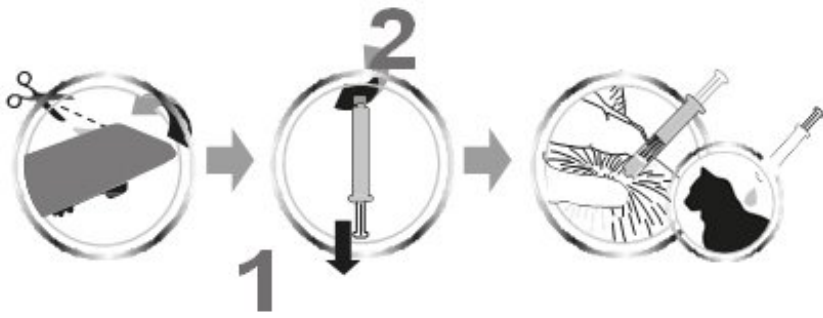
INDICATIONS

CENTRAGARD is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis*, and for the treatment and control of roundworms (adult and fourth stage larval *Toxocara cati*), hookworms (adult and fourth stage larval *Ancylostoma tubaeforme*; adult *Ancylostoma braziliense*), and tapeworms (adult *Dipylidium caninum* and *Echinococcus multilocularis*) in cats and kittens 7 weeks of age and older and 1.8 lbs or greater.

DOSAGE AND ADMINISTRATION

CENTRAGARD is dosed at a minimum of 0.055 mL/lb (0.12 mL/kg), which delivers a minimum dose of 0.23 mg/lb eprinomectin and 4.55 mg/lb praziquantel. Administer the entire contents of a CENTRAGARD unit applicator topically once a month as specified in the following table:

Cat Weight (lb)	Volume (mL)	Eprinomectin (mg)	Praziquantel (mg)
1.8-5.5	0.3	1.2	24.9
5.6-16.5	0.9	3.6	74.7
16.6-22.0	0.3 + 0.9	4.8	99.6
22.1-33.0	0.9 + 0.9	7.2	149.4



To apply CENTRAGARD pull back the plunger of the unit applicator slightly and remove the cap. Part the hair in one spot on the midline of the neck between the base of the skull and the shoulder blades, place the tip of the unit applicator on the skin and apply the contents directly on the skin. If the weight of the cat requires a second application, apply the contents in the same manner as described above in the same location. Discard applicator after use.

HEARTWORM PREVENTION

For prevention of heartworm disease, CENTRAGARD should be administered once a month. CENTRAGARD may be administered year round or at a minimum, should start 1 month before the cat's first expected exposure to mosquitoes and continuing at monthly intervals until at least one month after the cat's last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer CENTRAGARD immediately and resume the monthly dosing schedule.

When replacing another monthly heartworm preventive product in a heartworm prevention program, the first treatment with CENTRAGARD should be given within one month of the last dose of the former medication. At the discretion of the veterinarian, cats older than 6 months of age may be tested to determine the presence of existing heartworm infection before treatment with CENTRAGARD.

TREATMENT AND CONTROL OF ROUNDWORMS, HOOKWORMS AND TAPEWORMS

CENTRAGARD treats and controls roundworms (adult and fourth stage larval *Toxocara cati*), hookworms (adult and fourth stage larval *Ancylostoma tubaeformae*, adult *Ancylostoma braziliense*), and tapeworms (adult *Dipylidium caninum* and *Echinococcus multilocularis*) after a single administration or when given monthly as part of a heartworm prevention program. Cats may be exposed to and can become infected with roundworms, hookworms, and tapeworms throughout the year, regardless of season or climate. Clients should be advised of appropriate measures to prevent reinfection of their cat with intestinal parasites. Because the prepatent period for *E. multilocularis* may be as short as 26 days, cats treated at the labeled monthly intervals may become reinfected and shed eggs between treatments.

HUMAN WARNING

Not for human use. Keep out of reach of children. Avoid contact with the application site for 5 hours following treatment. Wash hands after administering the product. If the product accidentally gets into the eyes, flush thoroughly with water. In case of accidental ingestion, or if skin or eye irritation occurs, contact a poison control center or

physician for treatment advice.

PRECAUTIONS

Do not administer orally. Cats may salivate excessively and vomit if CENTRAGARD is accidentally administered orally or is ingested through licking/grooming the application site (see ANIMAL SAFETY).

The safety of CENTRAGARD has not been tested in breeding, pregnant or lactating cats.

The safety of CENTRAGARD has not been tested in kittens less than 7-9 weeks of age or weighing less than 1.8 lbs (0.8 kg).

ADVERSE REACTIONS

In a well-controlled field study, emesis, anorexia, lethargy, temporary clumping or spiking of the hair, or mild, transient skin reactions (itching, hair loss) were reported. When cats licked the application site after treatment, temporary excessive salivation was observed. Oral ingestion of CENTRAGARD may also result in hypersalivation, vomiting and/or lethargy. In margin of safety studies, transient neurological signs such as ataxia, disorientation, lethargy, and pupil dilation were observed in some cats. Correct application will minimize the occurrence of such events.

To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact Boehringer Ingelheim Animal Health USA Inc. at 1-888-637-4251.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

The Safety Data Sheet (SDS) provides additional occupational safety information. For customer service or to obtain product information, including the SDS, call 1-888-637-4251.

INFORMATION FOR OWNER OR PERSON TREATING ANIMAL

Echinococcus multilocularis is a tapeworm found in wild canids and domestic cats. *E. multilocularis* can infect humans and cause serious disease (alveolar hydatid disease). Owners of cats living in areas where *E. multilocularis* are endemic should be instructed on how to minimize their risk of exposure to this parasite, as well as their cat's risk of exposure. Although ML-635 was 100% effective in laboratory studies in cats against *E. multilocularis*, no studies have been conducted to show that the use of this product will decrease the incidence of alveolar hydatid disease in humans. Because the prepatent period for *E. multilocularis* may be as short as 26 days, cats treated at the labeled monthly intervals may become reinfected and shed eggs between treatments.

MODE OF ACTION

Eprinomectin binds to glutamate gated chloride channels that are present in invertebrate nerve and muscle cells and increases the permeability of the cell membrane to chloride ions that triggers hyperpolarization of the nerve or muscle cell resulting in paralysis and

death of the parasite.

Praziquantel's mode of action is not precisely known but treated tapeworms undergo muscular paralysis accompanied by a rapid influx of calcium ions and the disruption of the tegument.

EFFECTIVENESS

Effectiveness studies were conducted with an early formulation (ML-635), containing 8.3% fipronil, 0.4% eprinomectin, 8.3% praziquantel, and 10% (S)-methoprene. The doses of eprinomectin and praziquantel in ML-635 are equivalent to the final formulation of CENTRAGARD (eprinomectin and praziquantel transdermal solution).

Heartworm Disease Prevention

In well-controlled laboratory studies, ML-635 provided 100% effectiveness against induced heartworm infections after a single application.

Treatment and Control of Roundworms, Hookworms, and Tapeworms

In well-controlled laboratory studies, ML-635 provided > 90% effectiveness against natural and/or induced roundworm (adult and fourth stage larval *Toxocara cati*); hookworm (adult and fourth stage larval *Ancylostoma tubaeforme*; adult *Ancylostoma braziliense*), and adult tapeworm (*Dipylidium caninum*; *Echinococcus multilocularis*) infections.

ANIMAL SAFETY

Margin of Safety Study: A combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene was applied topically to 7 to 9 week old healthy kittens at 1, 3, or 5X the maximum dose (8 cats/group) six times at 28 day intervals. One 5X kitten exhibited ataxia, disorientation, and lethargy for 12 hours and exhibited pupil dilation for 24 hours following the 3rd treatment. This 5X kitten exhibited ataxia, disorientation, and lethargy for 6 hours, and moderate pupil dilation for 24 hours following the 4th treatment, and had pupil dilation following the 5th treatment. Hypersalivation was observed for one hour for one 5X kitten following the 1st treatment and one 3X kitten following the 4th treatment. One 5X kitten had slow pupillary light responses for one day after one treatment and one 3X kitten had slow pupillary light responses for 3 hours after one treatment. One control cat had marked pupil dilation and slow pupillary light responses lasting two hours after one treatment. Immediately post-treatment cats in all groups scratched and groomed the application site.

Study in Heartworm Positive Cats: Three groups (0X, 1X and 3X) of 12 young, adult cats, 4.7 to 6.6 months of age, were experimentally infected with adult heartworms (*D. immitis*) by venous transplantation. All cats were negative for heartworm antibody, antigen and microfilariae prior to transplantation. Two weeks after transplantation, immunoserology verified positive antigen and the presence of microfilaria in all enrolled cats. A combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene was applied topically to cats at 1X or 3X the maximum exposure dose once every 28 days for three consecutive treatments. One cat in the 1X group exhibited cyanotic mucous membranes and tachypnea for 24 hours following the first treatment. The cat recovered and exhibited no abnormal signs following two subsequent treatments. There was no difference between the treatment groups in the number of

adult *D. immitis* recovered at the end of the study.

Oral Administration Study: Oral tolerance was evaluated to assess the effects of accidental oral ingestion. Sixteen cats (8 male and 8 female) ranging in age from 9 - 10 months were studied. Eight cats were orally administered a combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene at 1X the maximum exposure dose; the 8 control cats were sham dosed. All 8 treated cats immediately exhibited hypersalivation after oral administration, and 2 cats vomited and 3 cats were lethargic during the 1-2 hour post-treatment observations. Treated cats continued to hypersalivate and lick lips/mouth for 1-2 hours after oral administration. Cats were monitored for 14 days thereafter, during which one treated cat vomited on Day 12.

STORAGE

Store at or below 30°C (86°F) with excursions permitted to 40°C (104°F). Protect from light.

HOW SUPPLIED

CENTRAGARD is packaged as a single dose in 0.3 mL (for cats 1.8 – 5.5 lb) and 0.9 mL (for cats 5.6-16.5 lb) applicators.

Each size applicator is available in cartons containing 1, 3 or 6 applications.

Approved by FDA under NADA # 141-492

Manufactured for:

Boehringer Ingelheim Animal Health USA Inc.
Duluth, GA 30096
Made in France

CENTRAGARD™ is a trademark of Boehringer Ingelheim Animal Health USA Inc.

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Revision date: Dec 2018

PRINCIPAL DISPLAY PANEL - 3 x 0.3 mL DISPLAY CARTON

Centragard™

(eprinomectin and praziquantel transdermal solution) FOR CATS

Apply once a month to prevent heartworm disease and treat and control roundworms, hookworms, and tapeworms

For use on cats and kittens between 1.8 - 5.5 lbs and 7 weeks of age or older

NOT FOR ORAL ADMINISTRATION

FOR USE IN CATS ONLY / KEEP OUT OF REACH OF CHILDREN

3 Applicators 0.3 mL

Each applicator contains 4 mg/mL eprinomectin and 83 mg/mL praziquantel

CAUTION: U.S. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

Approved by FDA under NADA # 141-492

Boehringer Ingelheim

The image shows the front of a Centragard box for cats. The box is primarily black with a green curved section at the top right. A large, clear image of a kitten's face is on the right side. The brand name 'Centragard' is prominently displayed in white with a red heart logo. Below it, the text '(eprinomectin and praziquantel transdermal solution) FOR CATS' is written in white. A yellow syringe icon is shown with the text '3 Applicators 0.3 mL'. A caution statement is at the bottom left, and the Boehringer Ingelheim logo is at the bottom center. A vertical label on the right side of the box repeats the product name and dosage.

CentragardTM
(eprinomectin and praziquantel transdermal solution) FOR CATS

Apply once a month to prevent heartworm disease and treat and control roundworms, hookworms, and tapeworms
NOT FOR ORAL ADMINISTRATION
FOR USE IN CATS ONLY/KEEP OUT OF REACH OF CHILDREN

3 Applicators
0.3 mL

Each applicator contains 4 mg/mL eprinomectin and 83 mg/mL praziquantel

CAUTION: U.S. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.
Approved by FDA under NADA # 141-492

Boehringer Ingelheim

For use on cats and kittens between 1.8-5.5 lbs and 7 weeks of age or older

For use on cats and kittens between 1.8-5.5 lbs and 7 weeks of age or older
3 Applicators 0.3 mL
CentragardTM
(eprinomectin and praziquantel transdermal solution) FOR CATS

This image shows the back of the Centragard box for cats. It contains detailed information about the drug's use, including indications, dosage, and precautions. A security label is visible on the left side, and contact information for the manufacturer is at the bottom. The Boehringer Ingelheim logo is also present.

CentragardTM
(eprinomectin and praziquantel transdermal solution) FOR CATS

For use on cats and kittens between 1.8-5.5 lbs and 7 weeks of age or older

Indications: Centragard is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis* and for the treatment and control of roundworms, hookworms and tapeworms in cats and kittens 7 weeks of age and older and 1.8 lbs or greater.

Dosage and Administration: Centragard is administered topically at a minimum dose of 0.055 mL/lb (0.12 mL/kg) body weight. Administer the entire contents of one Centragard unit applicator once a month. Refer to the package insert for full product information.

Precautions: For topical use only. Do not administer orally.

Human Warnings: Not for human use. Keep out of reach of children. Wash hands after administering the product.

Avoid contact with the application site for 5 hours following treatment.

Storage Conditions: Store at or below 86°F (30°C) with brief excursions permitted up to 104°F (40°C). Protect from light.

For complete product information, see package insert. Questions? Consult your veterinarian or for technical assistance or to report an adverse drug experience, call 1-888-637-4251.

Manufactured for:
Boehringer Ingelheim
Animal Health USA Inc.,
Duluth, GA 30096
MADE IN FRANCE

Lot/Exp box (WHITE BOX) on side of package

Approved by FDA under NADA # 141-492

SECURITY LABEL
No print here except spots
No print here except spots

PRINCIPAL DISPLAY PANEL - 3 x 0.9 mL DISPLAY CARTON

Centragard™

(eprinomectin and praziquantel transdermal solution) FOR CATS

Apply once a month to prevent heartworm disease and treat and control roundworms, hookworms, and tapeworms

For use on cats and kittens between 5.6 - 16.5 lbs and 7 weeks of age or older

NOT FOR ORAL ADMINISTRATION

FOR USE IN CATS ONLY / KEEP OUT OF REACH OF CHILDREN

3 Applicators 0.9 mL

Each applicator contains 4 mg/mL eprinomectin and 83 mg/mL praziquantel

CAUTION: U.S. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

Approved by FDA under NADA # 141-492

Boehringer Ingelheim

Centragard™

(eprinomectin and praziquantel transdermal solution) FOR CATS

Apply once a month to prevent heartworm disease and treat and control roundworms, hookworms, and tapeworms
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FOR USE IN CATS ONLY/KEEP OUT OF REACH OF CHILDREN

3 Applicators
0.9 mL

Each applicator contains 4 mg/mL eprinomectin and 83 mg/mL praziquantel

CAUTION: U.S. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.
 Approved by FDA under NADA # 141-492

Boehringer Ingelheim

For use on cats and kittens between **5.6-16.5 lbs** and 7 weeks of age or older

For use on cats and kittens between **5.6-16.5 lbs** and 7 weeks of age or older
3 Applicators
0.9 mL

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 (eprinomectin and praziquantel transdermal solution) FOR CATS



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Indications: Centragard is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis* and for the treatment and control of roundworms, hookworms and tapeworms in cats and kittens 7 weeks of age and older and 1.8 lbs or greater.

Dosage and Administration: Centragard is administered topically at a minimum dose of 0.055 mL/lb (0.12 mL/kg) body weight. Administer the entire contents of one Centragard unit applicator once a month. Refer to the package insert for full product information.

Precautions: For topical use only. Do not administer orally.

Human Warnings: Not for human use. Keep out of reach of children. Wash hands after administering the product. Avoid contact with the application site for 5 hours following treatment.

Storage Conditions: Store at or below 86°F (30°C) with brief excursions permitted up to 104°F (40°C). Protect from light.

For complete product information, see package insert. Questions? Consult your veterinarian or for technical assistance or to report an adverse drug experience, call 1-888-637-4251.

Manufactured for:
 Boehringer Ingelheim
 Animal Health USA Inc.,
 Duluth, GA 30096
MADE IN FRANCE

Lot/Exp box (WHITE BOX) on side of package
 Approved by FDA under NADA # 141-492

For use on cats and kittens between **5.6-16.5 lbs** and 7 weeks of age or older

SECURITY LABEL

No print here except spots

CENTRAGARD

eprinomectin and praziquantel solution

Product Information

Product Type	PRESCRIPTION ANIMAL DRUG	Item Code (Source)	NDC:0010-4243
Route of Administration	TRANSDERMAL		

Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
EPRINOMECTIN (UNII: 75KP30FD8O) (EPRINOMECTIN - UNII:75KP30FD8O)			EPRINOMECTIN	4 mg in 1 mL
PRAZIQUANTEL (UNII: 6490C9U457) (PRAZIQUANTEL - UNII:6490C9U457)			PRAZIQUANTEL	83 mg in 1 mL
Product Characteristics				
Color	YELLOW (Colorless to pale yellow-brown)		Score	
Shape			Size	
Flavor			Imprint Code	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0010-4243-01	1 in 1 CARTON		
1		1 in 1 BLISTER PACK		
1		0.3 mL in 1 APPLICATOR		
2	NDC:0010-4243-02	1 in 1 CARTON		
2		3 in 1 BLISTER PACK		
2		0.3 mL in 1 APPLICATOR		
3	NDC:0010-4243-03	2 in 1 CARTON		
3		3 in 1 BLISTER PACK		
3		0.3 mL in 1 APPLICATOR		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
NADA	NADA141492		08/03/2020	12/30/2024

CENTRAGARD

eprinomectin and praziquantel solution

Product Information			
Product Type	PRESCRIPTION ANIMAL DRUG	Item Code (Source)	NDC:0010-4251
Route of Administration	TRANSDERMAL		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
EPRINOMECTIN (UNII: 75KP30FD8O) (EPRINOMECTIN - UNII:75KP30FD8O)		EPRINOMECTIN	4 mg in 1 mL
PRAZIQUANTEL (UNII: 6490C9U457) (PRAZIQUANTEL - UNII:6490C9U457)		PRAZIQUANTEL	83 mg in 1 mL
Product Characteristics			

Color	YELLOW (Colorless to pale yellow-brown)	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0010-4251-01	1 in 1 CARTON		
1		1 in 1 BLISTER PACK		
1		0.9 mL in 1 APPLICATOR		
2	NDC:0010-4251-02	1 in 1 CARTON		
2		3 in 1 BLISTER PACK		
2		0.9 mL in 1 APPLICATOR		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NADA	NADA141492	08/03/2020	

Labeler - Boehringer Ingelheim Animal Health USA Inc. (007134091)

Revised: 12/2024

Boehringer Ingelheim Animal Health USA Inc.