



You love your best friend.

Protect your cat inside and out with Revolution® (selamectin).

Fleas, heartworms, roundworms, hookworms and ear mites. They're out there. And they're ready to make a meal of your best friend. These parasites aren't just gross; they're serious threats to your cat's health. That's why you should protect your cat year-round with REVOLUTION.

*Ctenocephalides felis *Dirofilaria immitis *Toxocara cati |Ancylostoma tubaeforme *Otodectes cynotis

BRING FLEAS TO THEIR KNEES

Did you know a female flea can lay 2,000 eggs in her lifetime?¹ Yowsa. A flea infestation is just plain miserable for your cat and a nuisance for you and your family. REVOLUTION is the number one choice of veterinarians to prevent and control flea infestations on cats—that includes preventing flea eggs from hatching.²

Why should I be concerned about fleas?

- Fleas cause itching and skin irritation, making your cat uncomfortable. Me-OW.
- If your cat has flea allergies, severe skin infections from scratching and even behavioral problems from anxiety may result.³ No one wants an itchy and irritable cat.
- Fleas may transmit tapeworms and other diseases to you and your family.
- Ever had a flea infestation in your home? It can be the worst. Resolving a flea infestation is frustrating, costly and time-consuming (it can take months!).

But my cat lives inside. What's the big deal?

Fleas can be tracked in by debris on things like your shoes. They can also hitch a ride on a family member or another family pet. Once inside, fleas can multiply quickly and infest your cat and other pets. Before you know it, your house could be a flea circus (and not





DESTROY THE MIGHTY EAR MITE

These tiny critters can cause big problems if left untreated. Ear mites are highly contagious and set up camp in and around cats' ears, feeding off debris in the ear canal. REVOLUTION kills mites, freeing your cat from these pests.

Why should I be concerned about ear mites?

Ear mites can cause severe irritation, such as:

- Red, inflamed and itchy ears. Yet another excuse for your cat not to listen to you.
- Black, granular substance in the ears (much like coffee grounds).
- Abrasions on the ears caused by excessive scratching.

How is my cat at risk?

Since ear mites are highly contagious, they can find their way indoors with other pets and then quickly be passed on to your cat.



DON'T LET THEM WORM THEIR WAY INTO YOUR CAT'S HEART

Believe it or not, just one bite from an infected mosquito can put your cat at risk for developing heartworm disease, which is serious and potentially fatal in cats. REVOLUTION is veterinarians' number one choice for heartworm protection.²

Why should I be concerened about heartworm disease?

- Just one heartworm can cause death in a cat. In fact, sudden death without signs of disease has been reported in some cases. Scary stuff.
 - Heartworms in cats can cause permanent lung damage known as Heartworm Associated Respiratory Disease (HARD).⁴
- There's no approved treatment to kill heartworms in cats—only symptoms can be treated. But you can keep your cat protected with once-monthly REVOLUTION.

How is my cat at risk?

Ever seen one of those pesky mosquitoes buzzing around your house? If there's even one mosquito in your home, then your cat is at risk. In a clinical study, more than 25 percent of cats diagnosed with heartworms were described by their owners to be indoor-only cats.⁵

STOP HOOKWORMS BEFORE THEY START

These guys are just nasty. Hookworms attach to the lining of a cat's intestinal wall and feed on a cat's blood, passing eggs in the cat's feces. Yuck!

Why should I be concerened about hookworms?

Hookworms can cause anemia and weight loss.



- Heavy infestations can be fatal, especially in kittens.
- Coughing may occur if they enter the lungs.

How is my cat at risk?

Cats can become infected by ingesting hookworm larvae ("baby hookworms") through infected prey. Your cat can also contract hookworms by eating cockroaches that contain infected larvae.⁶ Now that's ew times two.

SEND ROUNDWORMS PACKING

Roundworms are the most common internal parasite found in cats. They make themselves at home in the small intestine, then both adults and eggs are passed in a cat's feces. Roundworms can sometimes cause serious health issues in cats, especially kittens, and people.

Why should I be concerned about roundworms?

Roundworms can present a serious risk for you and your family? So much so that the Centers for Disease Control and Prevention (CDC) recommends that precautions be taken, including providing pets with regular treatment for intestinal parasites?

How is my cat at risk?

Cats are natural hunters and love to catch "treats" like rodents, birds and earthworms. But roundworms can be passed on to your kitty through infected prey or contaminated soil that can be found outside, or even inside in household potted plants.¹⁰



IMPORTANT SAFETY INFORMATION:

Do not use REVOLUTION on sick, weak or underweight cats. Use only on cats 8 weeks and older. Side effects may include digestive upset and temporary hair loss at application site with possible inflammation. In people, REVOLUTION may be irritating to skin and eyes. Wash hands after use. See full Prescribing Information, attached.

- ¹ Dryden MW. Integrated flea control: flea control in the 21st century. Presented at: North American Veterinary Conference, January 13-17, 2001; Orlando, FL.
- ² VetInsite™ Analytics January 2016. Zoetis Data on File.
- ³ Foil CS, Allergic diseases in the dog and cat: new and tried and true. Presented at: Annual Dermatology Conference, December 11, 2005; Baton Rogue, LA. http://www.lsu.edu/vetmed/veterinary_hospital/services/dermatology/ce_lectures/flea_allergy.php. Accessed February 16, 2016.
- ⁴ Blagburn BL, Dillon AR. Feline heartworm disease: solving the puzzle. Vet Med. 2007;102(3) (suppl):7-14.
- ⁵ Atkins CE, DeFrancesco TC, Coats JR, Sidley JA, Keene BW. Heartworm infection in cats: 50 cases (1985-1997). J Am Vet Med Assoc. 2000; 217(3):355-358.
- ⁶ Current advice on parasite control: intestinal parasites hookworms. Companion Animal Parasite Council. http://www.capcvet.org/capc-recommendations/hookworms. Accessed March 30, 2016.
- ⁷ Gastrointestinal parasites of cats. Cornell University College of Veterinary Medicine. http://www.vet.cornell.edu/fhc/Health_Information/brochure_parasite.cfm. Accessed March 2, 2016.
- 8 Toxocariasis FAQs. Centers for Disease Control and Prevention. http://www.cdc.gov/parasites/toxocariasis/gen_info/faqs.html. Accessed March 11, 2016.
- ⁹ Parasites toxocariasis (also known as roundworm infection): prevention & control. Centers for Disease Control and Prevention. http://www.cdc.gov/parasites/toxocariasis/prevent.html. Accessed March 11, 2016.
- ¹⁰ Zoonoses, JF. Tracking ticks in the Netherlands. Vet Rec. 2006;158(7):217-218.



BECAUSE SAFETY IS IMPORTANT TO YOU

REVOLUTION is safe for kittens as young as 8 weeks old, for breeding, pregnant and lactating cats, and for heartworm-positive cats. Unlike other topical products that require separation for a specific period of time after application, REVOLUTION doesn't! With REVOLUTION, it's safe for your cat to be with your family, other pets or even on your bed immediately after application.

BECAUSE YOU LIKE TO KFFP THINGS SIMPLE

REVOLUTION is an easy-to-apply, non-greasy and quick-drying topical product that you apply once a month.

Ask your veterinarian about **REVOLUTION** for cats today.

Learn more about caring for your cat and sign up for monthly dosage reminders at:

revolution4cats.com



Join our cat community, Catisphere.





NADA 141-152, Approved by FDA

REVOLUTION® (selamectin)

Topical Parasiticide For Dogs and Cats

CALITION:

US Federal law restricts this drug to use by or on the order of a licensed veterinarian. DESCRIPTION:

Revolution (selamectin) Topical Parasiticide is available as a colorless to vellow. ready to use solution in single dose tubes for topical (dermal) treatment of dogs six weeks of age and older and cats eight weeks of age and older. The content of each tube is formulated to provide a minimum of 2.7 mg/lb (6 mg/kg) of body weight of selamectin. The chemical composition of selamectin is (5Z.25S)-25-cyclohexyl-4'-0-de(2,6-dideoxy-3-0-methyl-α-L-arabino-hexopyranosyl)-5demethoxy-25-de (1-methylpropyl)-22,23-dihydro-5-hydroxyiminoavermectin A,,

INDICATIONS:

Revolution is recommended for use in dogs six weeks of age or older and cats eight weeks of age and older for the following parasites and indications:

Dogs:

Revolution kills adult fleas and prevents flea eggs from hatching for one month and is indicated for the prevention and control of flea infestations (Ctenocephalides felis), prevention of heartworm disease caused by Dirofilaria immitis, and the treatment and control of ear mite (Otodectes cynotis) infestations. Revolution also is indicated for the treatment and control of sarcoptic mange (Sarcoptes scabiei) and for the control of tick infestations due to Dermacentor variabilis.

Cats

Revolution kills adult fleas and prevents flea eggs from hatching for one month and is indicated for the prevention and control of flea infestations (Ctenocephalides felis), prevention of heartworm disease caused by Dirofilaria immitis, and the treatment and control of ear mite (Otodectes cynotis) infestations. Revolution is also indicated for the treatment and control of roundworm (Toxocara cati) and intestinal hookworm (Ancylostoma tubaeforme) infections in cats.

WARNINGS:

Not for human use. Keep out of the reach of children.

In humans, Revolution may be irritating to skin and eyes. Reactions such as hives, itching and skin redness have been reported in humans in rare instances. Individuals with known hypersensitivity to Revolution should use the product with caution or consult a health care professional. Revolution contains isopropyl alcohol and the preservative butylated hydroxytoluene (BHT). Wash hands after use and wash off any product in contact with the skin immediately with soap and water. If contact with eyes occurs, then flush eyes copiously with water. In case of ingestion by a human, contact a physician immediately. The mate safety data sheet (MSDS) provides more detailed occupational safety information. For a copy of the MSDS or to report adverse reactions attributable to exposure to this product, call 1-888-963-8471.

Flammable - Keep away from heat, sparks, open flames or other sources of ignition.

Do not use in sick, debilitated or underweight animals (see SAFETY).

PRECAUTIONS:

Prior to administration of Revolution, dogs should be tested for existing heartworm infections. At the discretion of the veterinarian, infected dogs should be treated to remove adult heartworms. Revolution is not effective against adult D. immitis and, while the number of circulating microfilariae may decrease following treatment. Revolution is not effective for microfilariae clearance.

Hypersensitivity reactions have not been observed in dogs with patent heartworm infections administered three times the recommended dose of Revolution. Higher doses were not tested.

ADVERSE REACTIONS:

Pre-approval clinical trials:

Following treatment with Revolution, transient localized alopecia with or without inflammation at or near the site of application was observed in approximately 1% of 691 treated cats. Other signs observed rarely (≤0.5% of 1743 treated cats and dogs) included vomiting, loose stool or diarrhea with or without blood, anorexia, lethargy, salivation, tachypnea, and muscle tremors.

Post-approval experience: In addition to the aforementioned clinical signs that were reported in pre-approval clinical trials, there have been the provided trials of the provided trials. There have also been rare reports of pruritus, urticaria, erythema, ataxia, fever, and rare reports of death. There have also been rare reports of seizures in dogs (see WARNINGS).

DOSAGE:

The recommended minimum dose is 2.7 mg selamectin per pound (6 mg/kg) of body weight.

Administer the entire contents of a single dose tube (or two tubes used in combination for dogs weighing over 130 pounds) of Revolution topically in accordance with the following tables. (See ADMINISTRATION for the recommended treatment intervals.)

	Cats (Ib)	Package color	mg per tube	Potency (mg/mL)	Administered volume (mL)
ſ	Up to 5	Mauve	15 mg	60	0.25
ľ	5.1-15	Blue	45 mg	60	0.75
ı	15.1-22	Taupe	60 ma	60	1.0

For cats over 22 lbs use the appropriate combination of tubes.

Dogs (lb)	Package color	mg per tube	Potency (mg/mL)	Administered volume (mL)			
Up to 5	Mauve	15 mg	60	0.25			
5.1-10	Purple	30 mg	120	0.25			
10.1-20	Brown	60 mg	120	0.5			
20.1-40	Red	120 mg	120	1.0			
40.1-85	Teal	240 mg	120	2.0			
85 1-130	Plum	360 ma	120	3.0			

For dogs over 130 lbs use the appropriate combination of tubes.

Recommended for use in dogs 6 weeks of age and older and in cats 8 weeks of age and older.

ADMINISTRATION:

A veterinarian or veterinary technician should demonstrate or instruct the pet owner regarding the appropriate technique for applying Revolution topically to dogs and cats prior to first use

Firmly press the cap down to puncture the seal on the Revolution tube; a clicking sound will confirm that the cap has successfully punctured the seal. Remove the cap and check to ensure that the tip of the tube is open. To administer the product, part the hair on the back of the animal at the base of the neck in front of the shoulder blades until the skin is visible. Place the tip of the tube on the skin and squeeze the tube 3 or 4 times to empty its entire contents directly onto the skin in one spot. Keeping the tube squeezed, drag it away from the liquid and lift to remove. Check the tube to ensure that it is empty. Do not massage the product into the skin. Due to alcohol content, do not apply to broken skin. Avoid contact between the product and fingers. Do not apply when the haircoat is wet. Bathing or shampooing the dog 2 or more hours after treatment will not reduce the effectiveness of Revolution against fleas or heartworm. Bathing or shampooing the cat 2 hours after treatment will not reduce the effectiveness of Revolution against fleas. Bathing or shampooing the cat



24 hours after treatment will not reduce the effectiveness of Revolution against heartworm. Stiff hair, clumping of hair, hair discoloration, or a slight powdery residue may be observed at the treatment site in some animals. These effects are temporary and do not affect the safety or effectiveness of the product. Discard empty tubes in your ordinary household refuse.

Flea Control in Dogs and Cats

For the prevention and control of flea infestations, Revolution should be administered at monthly intervals throughout the flea season, starting one month before fleas become active. In controlled laboratory studies - 93% of fleas were killed within 36 hours. Results of clinical field studies using Revolution monthly demonstrated - 90% control of flea infestations within 30 days of the first dose. Dogs and cats treated with Revolution, including those with pre-existing flea allergy dermatitis, showed improvement in clinical signs associated with fleas as a direct result of eliminating the fleas from the animals and their environment.

If the dog or cat is already infested with fleas when the first dose of Revolution is administered, adult fleas on the animal are killed and no viable fleas hatch from eggs after the first administration. However, an environmental infestation of fleas may persist for a short time after beginning treatment with Revolution because of the emergence of adult fleas from pupae.

Heartworm Prevention in Dogs and Cats

For the prevention of heartworm disease, Revolution must be administered on a monthly basis. Revolution may be administered year-round or at least within one month after the animal's first exposure to mosquitoes and monthly thereafter until the end of the mosquito season. The final dose must be given within one month after the last exposure to mosquitoes. If a dose is missed and a monthly interval between dosing is exceeded then immediate administration of Revolution and resumption of monthly dosing will minimize the opportunity for the development of adult heartworms. When replacing another heartworm preventive product in a heartworm disease prevention program, the first dose of Revolution must be given within a month of the last dose of the former medication.

Selamectin, the active ingredient in Revolution, is a macrocyclic lactone compound. These compounds effectively prevent the development of adult heartworms when administered to dogs and cats within one month of exposure to infective (I.) Diroflaria immitis larvae. Efficacy of macrocyclic lactones decreases below 100% in dogs, however, if first administered -2 months after exposure to infective larvae. Thus, in heartworm endemic regions, delaying initiation of heartworm prevention using Revolution beyond 2 months of first exposure to infective larvae (e.g., starting puppies and kittens at -8 weeks of age), or gaps of >2 months in the administration of Revolution during periods of heartworm transmission, increases the risk of the animal acquiring heartworms. Animals with unknown heartworm history that test negative for heartworms prior to the initiation of Revolution may be harboring pre-patent infections at the time Revolution was started. Testing such animals 3-4 months after initiation of Revolution would be necessary to confirm their negative heartworm status.

At the discretion of the veterinarian, cats ≥6 months of age may be tested to determine the presence of existing heartworm infections before beginning treatment with Revolution. Cats already infected with adult heartworms can be given Revolution monthly to prevent further infections.

Ear Mite Treatment in Dogs and Cats

For the treatment of ear mite (0. cynotis) infestations in dogs and cats, Revolution should be administered once as a single topical dose. A second monthly dose may be required in some dogs. Monthly use of Revolution will control any subsequent ear mite infestations. In the clinical field trais ears were not cleaned, and many animals still had debris in their ears after the second dose. Cleansing of the infested ears is recommended to remove the debris.

Sarcoptic Mange Treatment in Dogs

For the treatment of sarcoptic mange (S. scabiei) in dogs, Revolution should be administered once as a single topical dose. A second monthly dose may be required in some dogs. Monthly use of Revolution will control any subsequent sarcoptic mange mites on strains. Because of the difficulty in finding sarcoptic mange mites on skin scrapings, effectiveness assessments also were based on resolution of clinical signs. Resolution of the pruritus associated with the mite infestations was observed in approximately 50% of the dogs 30 days after the second monthly treatment.

Tick Control in Dogs

For the control of tick (Dermacentor variabilis) infestations in dogs, Revolution should be administered on a monthly basis. In heavy tick infestations, complete efficacy may not be achieved after the first dose. In these cases, one additional dose may be administered two weeks after the previous dose, with monthly dosing continued thereafter.

Nematode Treatment in Cats

For the treatment and control of intestinal hookworm (A. tubaeforme) and roundworm (T. cati) infections, Revolution should be applied once as a single topical dose.

SAFFTY-

Revolution has been tested safe in over 100 different pure and mixed breeds of healthy dogs and over 15 different pure and mixed breeds of healthy cats, including pregnant and lactating females, breeding males and females, puppies six weeks of age and older, kittens eight weeks of age and older, and avermeetinsensitive collies. A kitten, estimated to be 5-6 weeks old (0.3 kg), died 8 ½ hours after receiving a single treatment of Revolution at the recommended dosage. The kitten displayed clinical signs which included muscle spasms, salivation and neurological signs. The kitten was a stray with an unknown history and was malnourished and underweight (see WARNIMGS).

DOSS: In safety studies, Revolution was administrend at 1, 3, 5, and 10 times the recommended dose to six-week-old puppies, and no adverse reactions were observed. The safety of Revolution administrend orally also was tested in case of accidental oral ingestion. Oral administration of Revolution at the recommended topical dose in 5- to 8-month-old beagles did not cause any adverse reactions. In a pre-clinical study selamentin was dosed orally to ivermetrie-resistive collies. Oral administration of 2.5, 10, and 15 mg/kg in this dose escalating study did not cause any adverse reactions, however, eight hours after receiving 5 mg/kg orally, one escalating study did not cause any adverse reactions, the topical control of the control of

CATS: In safety studies, Revolution was applied at 1, 3, 5, and 10 times the recommended dose to six-week-old kittens. No adverse reactions were observed. The safety of Revolution administered orally also was steated case of accidental oral ingestion. Dral administration of the recommended topical dose of Revolution to cats caused salivation and intermittent vomiting. Revolution also was applied at 4 times the recommended dose to patent heartworm infected cats. and no adverse reactions were observed.

In well-controlled clinical studies, Revolution was used safely in animals receiving other frequently used veterinary products such as vaccines, anthelmintics, antiparasitics, antibiotics, steroids, collars, shampoos and dips.

STORAGE CONDITIONS: Store below 30°C (86°F).

HOW SUPPLED: Available in eight separate dose strengths for dogs and cats of different weights (see DOSAGE). Revolution for puppies and kittens is available in cartons containing 3 single dose tubes. Revolution for cats and dogs is available in cartons containing 3 or 6 single dose tubes.



Zoetis
Distributed by:
Zoetis Inc.
Kalamazon MI 49007