



# Satisfaction Guaranteed

If you are not completely satisfied with Revolution for any reason, we will replace the product or refund the purchase price. See your veterinarian for details.

revolution  
(selamectin)

## Revolution® (selamectin)

Topical Parasiticide For Dogs and Cats

**CAUTION**  
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 yellow, nearly to see 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/kg (6 mg/lb) of body weight of selamectin. The chemical composition of selamectin is (5S,25S)-25-cyanohept-4'-O-one (2,6-dideoxy-3-O-methyl-α-L-arabino-hecopyranosyl)-5-demethoxy-25-de(1-methylpropyl)-22,23-dihydro-6-hydroxyminocycline A<sub>14</sub>.

**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 rashes 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 material 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 1-800-366-5288. 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 891 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, lethargy, and muscle tremors.  
**Post-approval experience**  
In addition to the aforementioned clinical signs that were reported in pre-approval clinical trials, there have been reports of pruritis, urticaria, erythema, ataxia, fever, and rare reports of death. There have also been rare reports of seizures in dogs (see WARNINGS).

**DOSEAGE**  
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 85 pounds) of REVOLUTION topically in accordance with the following tables. (See ADMINISTRATION for the recommended treatment intervals.)

Cats (lb)	Package color	mg per tube	Potency (mg/mL)	Administered volume (mL)
Up to 5	Mauve	15 mg	60	0.25
5.1-15	Blue	45 mg	60	0.75

For cats over 15 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	120 mg + 240 mg*	120	3.0

\*Two tubes used in combination.  
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 insure 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 into the skin in one spot. Keeping the tube squeezed, drag it away from the liquid and 90° to remove. Check the tube to insure 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 animal 2 or more hours after treatment will not reduce the effectiveness of REVOLUTION. Dirt, 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 >98% of fleas were killed within 30 hours. Results of clinical flea 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 flea 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 first 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 (L3) Culex tarsalis 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 >6 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 status that has become 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 26 months of age may be tested to determine the presence of existing heartworm infections before beginning treatment with REVOLUTION. Cats already infested with adult heartworms can safely be given REVOLUTION monthly to prevent further infections.

**Ear Mite Treatment in Dogs and Cats**  
For the treatment of ear mite (O. 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 sarcoptic mange mite infestations. In the clinical field these ears were not cleaned, and many animals still had debris in their ears after the second dose. Cleaning 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 mite infestations. 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 90% of the dogs 30 days after the first treatment and in approximately 90% 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.

**Intestinal 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.

**SAFETY**  
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 avermectin-sensitive collies. A kitten, administered to 6-8 weeks old (0.3 kg), died 9-10 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 PRECAUTIONS).

**Dogs**  
In safety studies, REVOLUTION was administered at 1, 2, 5, and 10 times the recommended dose to six-week-old puppies, and no adverse reactions were observed. The safety of REVOLUTION administered orally also was assessed in case of accidental oral ingestion. Oral administration of REVOLUTION at the recommended topical dose in 8- to 8-month-old beagles did not cause any adverse reactions. In a pre-clinical study selamectin was dosed orally to avermectin-sensitive 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 6 mg/kg orally, one avermectin-sensitive collie became ataxic for several hours, but did not show any other adverse reactions after receiving subsequent doses of 10 and 15 mg/kg orally. In a topical safety study conducted with avermectin-sensitive collies at 1, 3 and 5 times the recommended dose of REVOLUTION, sedation was observed in all treatment groups, including the vehicle control. REVOLUTION also was administered at 2 times the recommended dose to heartworm infected dogs, and no adverse effects were observed.

**Cats**  
In safety studies, REVOLUTION was applied at 1, 3, 6, and 10 times the recommended dose to six-week-old kittens. No adverse reactions were observed. The safety of REVOLUTION administered orally also was tested in case of accidental oral ingestion. Oral administration of the recommended topical dose of REVOLUTION to cats caused sedation 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, shampoo and dips.

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

**HOW SUPPLIED**  
Available in six 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. REVOLUTION for dogs weighing more than 85 lbs is available in cartons containing 6 or 12 single dose tubes.

For a copy of the Material Safety Data Sheet (MSDS) or to report adverse reactions call Pfizer Animal Health at 1-800-366-5288.

NADA 141-152, Approved by FDA Pfizer Animal Health Div. of Pfizer Inc. New York, NY 10017 TIME

For more information visit [www.petsandparasites.org](http://www.petsandparasites.org). Revolution is a registered trademark of Pfizer Inc. ©2006 Pfizer Inc. All rights reserved. REV0106003



For Fleas.  
For Heartworm.  
For So Much More.  
Revolution®  
(selamectin)

revolution®





### How dangerous are parasites to my dog?

For families with dogs, parasites like heartworm, fleas, ear mites and sarcoptic mites can be more than just a nuisance. In fact, left untreated, heartworm can be fatal to a dog.

What's worse, some of these external parasites are contagious and may be spread from one pet to another—and sometimes even to people. Fortunately, thanks to REVOLUTION® (selamectin), there's now an easy way to protect your dog against all of these parasites.

### Why is Revolution different?

FDA-approved Revolution is not a messy pesticide. Revolution is topical medicine that protects dogs against fleas and heartworm and several other harmful parasites—inside and out. Revolution can provide the same protection your dog would get from the combined use of several other products.

### Is Revolution safe to use?

It's safe for puppies as young as 6 weeks, breeding males and females, pregnant and nursing dogs, as well as heartworm-positive dogs and Collies with a dose-dependent sensitivity to ivermectin. Revolution is generally well-tolerated. In studies, <1% of cats and dogs experienced digestive upset. Approximately 1% of cats experienced temporary hair loss at the application site. Do not use in sick, weak or underweight animals. See back panel for prescribing information.

## Revolution Protects Your Dog Against Multiple Parasites



### Prevents and Controls Flea Infestations.

A problem on pets and in their environment. Fleas can transmit disease, cause itching, scratching and discomfort, which can lead to a condition called flea allergy dermatitis.



### Prevents Heartworm Infection.

Heartworm infection can cause heart and lung disease and can even be fatal. Treating it can be difficult and costly.



### Treats and Controls Ear Mites.

Easily passed from pet to pet, ear mites cause intense irritation and discomfort.



### Treats and Controls Sarcoptic Mites.

These microscopic mange mites may cause scabies, a condition that leads to intensely itchy skin, hair loss and a rash. And they're contagious; people can catch them from their pets.



### Controls American Dog Tick Infestations.

Commonly found in fields, woods and grassy areas, this type of tick can transmit many serious canine diseases.

## How do I apply Revolution?

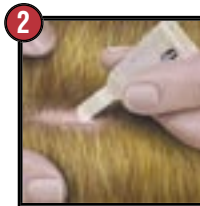
It's easy. Just a spot a month in front of your dog's shoulder blades is all it takes. There are no pills. No sticky sprays. And no more hassling with multiple products. Revolution is quick-drying, nongreasy and waterfast, so you can cuddle and play with your pet again as soon as Revolution dries.

## Protect Your Pet in 3 Easy Steps

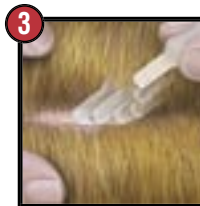
Revolution is packaged in clear convenient one-dose tubes for simple administration.



1. **Holding the tube upright, press cap down until you hear a click (cap punctures applicator seal). Then remove the cap and check to be sure tip is open.**



2. **Part hair at the base of your dog's neck, and place tube on visible skin area. Squeeze tube 3 or 4 times in one spot until empty. Keep the tube squeezed to avoid drawing liquid back into tube.**



3. **While keeping tube squeezed, drag it away from the liquid and lift up to remove. Ensure tube is empty.**

Ask your veterinarian to demonstrate the correct way to apply Revolution to your pet.

## Keep your pet safe all year round

What's the best way to protect your dog from heartworm disease or fleas? Easy. Prevent it. Protect your pet with Revolution for the entire course of its life, and you help to ensure that your pet won't have to worry about parasites.



In fact, the Companion Animal Parasite Council (CAPC), an independent council of veterinarians established to create guidelines for the optimal control of parasites, recommends treating dogs and cats all-year-long with a broad-spectrum parasite preventative such as Revolution! Year-round protection will help to ensure both the health of your pet and the well-being of your family.

Offer your pet a higher standard of care—talk to your veterinarian about implementing a year-round parasite control program.

## Try Revolution Today

Revolution protects both dogs and cats and is available only from your veterinarian. See your veterinarian about prescribing Revolution for your dog.

If you have any questions about Revolution or the many parasites from which it protects your pet, please ask your veterinarian or call 1-888-REVOLUTION, Monday—Friday, 8 a.m. to 8 p.m. EST. Or visit [www.revolutionfordogs.com](http://www.revolutionfordogs.com).