

Advanced Topical Protection for Dogs



Science proves Vectra® 3D, a flea, tick and mosquito control product adds a second layer of protection against heartworm transmission because it repels and kills mosquitoes.



DoubleDefense.com

Does your flea and tick control meet the new standard of care for heartworms?

Vectra® 3D repels and kills mosquitoes before they bite, keeping your dog safe from dangerous and potentially disease-transmitting mosquito bites.

Mosquitoes



- Mosquitoes are repelled for one month after administration.
- Mosquitoes are killed within one hour, starting one day after application, which means they cannot spread disease.

Vectra® 3D is also known as advanced topical protection against fleas and ticks.

Fleas



- Begins reducing flea feeding in 5 minutes.
- Knocks down fleas in less than 2 hours.
- Repels and kills through contact.
- Controls all life stages of fleas – eggs, larvae, pupae and adults.
- Prevents reinfestation of fleas for a full month.

Ticks



- Repels and kills ticks through contact.
- Repels and kills ticks before they can attach to dogs.
- Ticks don't have to bite the dog (and possibly spread disease) in order to die.
- Repels ticks and protects dogs for a full month.



The flea, tick and mosquito control that adds a layer of defense against heartworms because it repels and kills mosquitoes.

Effective Repellent

- Repels mosquitoes. The carrier of heartworm larvae.
- Kills through contact. So parasites do not have to bite your dog in order to die.
- Fleas and ticks that come in contact with Vectra® 3D feel a “hot-foot” reaction and try to get away.
- Prevents mosquitoes from feeding and often even landing.

Broad Spectrum

- Repels and kills mosquitoes, fleas, ticks, biting flies, lice and mites.*
- Kills adult fleas and prevents the development of all immature stages of fleas: eggs, larvae and pupae.

Convenient

- Protection for puppies as young as 8 weeks of age.
- Patented applicator with elongated tip makes application easy and minimizes risk of skin abrasions.
- Remains effective after bathing and swimming.
- Protects for one month.



Learn more at VectraPet.com and DoubleDefense.com

How to apply Vectra® 3D to your dog.

Before administering Vectra® 3D for the first time, you should ask your veterinarian to demonstrate proper application technique.

Use Restrictions: USE ONLY ON DOGS. Do not use on cats or other animals. Do not have contact or allow children to have contact with treated areas until treatment is completely dry.

1. Remove applicator from package.
2. The dog should be standing or in a comfortable position for easy application.
3. Holding the applicator tube upright, pointing away from face, place thumb and index finger around the applicator tip under the large disk. With other hand, grasp the stem of applicator tip above smaller disk. Press down firmly on small disk until both disks meet, piercing the seal. (See Figure 1)
4. The applicator disks should be pushed together and left that way in preparation for application to your dog. Only the colored tip and cap should be grasped while pushing the disks together. If pressure is applied to the tube, or if the disks are pulled apart, product may leak out from the tube.
5. Using the applicator tip, part the hair at the base of the tail, and begin applying the product onto the skin in a continuous line from the base of the tail along the center of the back all the way up to the shoulder blades, as shown in Figure 1, squeezing the applicator tube until it's empty. (Avoid superficial application to the dog's hair.)
6. Repeat every month or as recommended by your veterinarian.
7. For optimal treatment, control and prevention of adult and immature flea stages, ticks, mosquitoes, lice, mites (excluding mange mites), biting flies, and sand flies year-round treatment is recommended.

Figure 1



Do not get the product in the dog's eyes or mouth.

FACT: Heartworm disease is life-threatening for dogs.

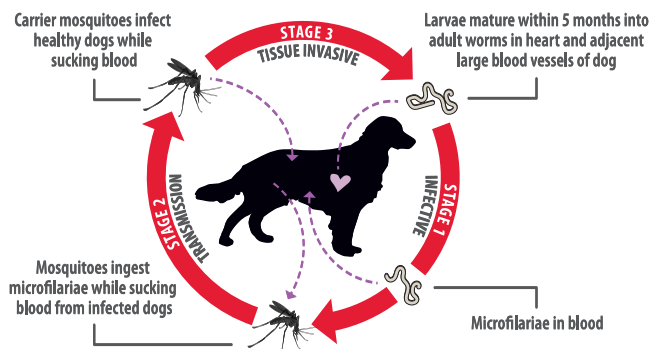
FACT: Heartworm has been diagnosed in all 50 states.

FACT: Heartworm cases diagnosed have increased over 166% from 2013 to 2015.*

*Companion Animal Parasite Council data

How is heartworm disease transmitted?

Heartworm is transmitted by infected mosquitoes biting dogs.



How does Vectra® 3D fight heartworm disease transmission?

BY STOPPING THE MOSQUITO!

A scientific study proved that Vectra® 3D was over 99% effective in blocking the transmission of heartworm microfilariae from infected dogs to mosquitoes.¹



Vectra® 3D

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**Double Defense
against heartworms**

**Heartworm
Preventive**

Frequently Asked Questions About Vectra® 3D

What is Double Defense?

Infected mosquitoes are the only way that heartworm is spread. Traditional heartworm preventives do not protect your dog against mosquitoes. Double Defense means using two products, Vectra® 3D and a heartworm preventive to protect against mosquitoes and heartworms. Research has shown that Double Defense protects your dog better than a heartworm preventive alone.¹

What is Vectra® 3D?

Vectra® 3D is a topical repellent that protects your dog against a broad spectrum of parasites, like fleas, ticks, mosquitoes and more. In one easy application, your dog is protected for a full month and since Vectra® 3D repels parasites before they may have a chance to bite, you can be sure you're getting the most complete preventative.

- Kills and repels mosquitoes, fleas, ticks, biting flies, mites* and lice.
- Single application lasts for one month.
- Kills through contact and reduces the chance of parasites to feed.
- Quick-drying and non-greasy.
- Water-resistant, remains effective after bathing, swimming, exposure to rain or sunlight.
- Available from your veterinarian.

How can I prevent my dog from getting fleas or ticks and causing an infestation in my house?

Using Vectra® 3D is a great way to prevent an infestation and protect your dog from being bitten by fleas and ticks. Most organizations like Companion Animal Parasite Control, American Animal Hospital Association and the American Association of Veterinary Parasitologists recommend year-round use of flea and tick preventives to help decrease vector-borne disease.

What does repellency mean?

Repellency has different effects depending on whether the parasite is able to fly or not. For biting flies and mosquitoes, repellency means that the insects hover near the dog, sense the product, and are repelled away, sometimes without landing on your dog. For fleas and ticks, repellency works differently. Fleas and ticks, once in the process of getting on your dog, can't "change their minds." However, once there, they are affected by Vectra® 3D and don't want to stay on your dog, so they are repelled away from the skin. These fleas and ticks will die shortly after they leave your dog's hair coat.

Can I bathe my dog before or after I apply Vectra® 3D?

Yes, your dog just needs to be completely dry before applying Vectra® 3D and the product needs to dry completely before bathing. You do not need to wait 48 hours before or after application. The shampoo you choose is very important, too. Do not use detergent dish soap or detergent shampoos; this will remove the Vectra® 3D from your dog's skin and hair, resulting in loss of protection for your dog. Remember, if your dog is receiving therapeutic shampoos and rinses from your vet for other skin diseases, they may affect the duration of action of Vectra® 3D. Your veterinarian can talk to you about ways to use Vectra® 3D in these situations.

My dog has fleas or ticks and then I started using Vectra® 3D, but I am still seeing them. Is Vectra® 3D not working?

If you have seen fleas or ticks on your dog, then you most likely already have an environmental infestation. This means that thousands of fleas or ticks in various stages of development are in your house or yard. With severe flea infestations, you may notice more fleas at 10-21 days after applying Vectra® 3D. This is expected and due to the emergence of adult fleas from immature forms that were present in your home environment, prior to treating your dog with Vectra® 3D. It may take several months of continuous use of Vectra® 3D to effectively control a flea infestation. You must also make sure that ALL the pets in your household are treated for fleas with the appropriate Vectra product. Please remember not to use Vectra® 3D on cats. Any untreated animal can act as a source of continued infestation for the other pets. Ticks are different than fleas in how they infest the environment. Thousands of ticks can reside in small areas of nature. It is not unusual for a dog to be exposed to these huge tick populations from a simple walk outdoors. Some species of ticks like to infest the house like fleas (for example, Brown Dog Tick). If this happens, you may need the services of a professional exterminator. You will continue to see fleas and ticks on your dog until the environmental infestation is cleared because of the repellency aspect of Vectra® 3D. (See "repellency" description in earlier question.)

My dog appears to be itching after applying Vectra® 3D. Is this a normal reaction?

Yes, this can happen. Vectra® 3D has been designed to spread rapidly over your dog's skin to provide fast protection to all areas of your dog. This, in addition to the unique formulation of Vectra® 3D, can result in a transient itching sensation experienced by some dogs as the product moves across the skin. Follow the application method shown above to enhance product movement and reduce sensation. If your dog does experience itching, try a simple distraction such as playing ball or going for a walk until the Vectra® 3D is dry. For the small percentage of dogs that do experience itching, most only experience it the first time Vectra® 3D is applied, so Vectra® 3D can be applied again with confidence in the future.

Why does my dog's coat appear "oily" or "wet" after application?

Vectra® 3D contains a bioadhesive and other agents (often called inert ingredients) to stabilize the product and help it spread across your dog's skin and continue to kill parasites for 30 days. In some cases, the product may pick up hair strand. When this occurs, a sheen may be noted on the dog's fur, at the application site, after the product has dried. The effective components of Vectra® 3D have already moved to other parts of the dog's body to do their job. A simple brushing of the coat will make this temporary hair change disappear.

Is Vectra® 3D okay to use on my dog if I have a cat in my home?

Yes, Vectra® 3D is okay to use on your dog, even if the household is shared by a cat. – **BUT VECTRA® 3D SHOULD NOT BE USED ON CATS.**

You simply need to keep your dog and cat separated 24 hours after applying Vectra® 3D to your dog. Vectra® 3D can be toxic to cats if they ingest the liquid product. For example, if a cat actively grooms a recently treated dog. If this occurs, please call your veterinarian immediately. However, after 24 hours, your dog and cat can be as close as they want; there is no risk of intoxication via lying near each other or grooming each other.



1. McCall, J.W., Hodgkins, E., Varlout, M., Mansour, A., DiCosto, U. (2015, July). Inhibition of the transmission of *Dirofilaria immitis* to mosquitoes by weekly exposure to microfilaremia dogs treated topically with dinotefuran-pyrrethrin-pyriproxyfen. Abstract presented at the meeting of the American Association of Veterinary Parasitologists, Boston, MA.

DO NOT USE VECTRA® 3D ON CATS.
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*Excluding mange mites
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