

TABLE 1

Flea Control Products Approved by the US Environmental Protection Agency and/or the US Food and Drug Administration^a

Product (Manufacturer)	Active Flea Control Ingredients ^b	Species and Minimum Age	Dosage/Administration	Mode of Action
Program/Sentinel (Novartis Animal Health)	▶ Lufenuron	▶ Dogs: 4 weeks ▶ Cats: 6 weeks	Monthly oral; also injectable q6mo feline product	▶ Inhibitor of chitin biosynthesis
Frontline Plus (Merial)	▶ Fipronil ▶ S-Methoprene	▶ Dogs: 8 weeks ▶ Cats: 8 weeks	Monthly spot-on	▶ Fipronil: GABA-gated chloride channel antagonist ▶ S-methoprene: Juvenile hormone analogue (IGR)
Advantage (Bayer Animal Health)	▶ Imidacloprid	▶ Dogs: 7 weeks ▶ Cats: 8 weeks	Monthly spot-on; can be used weekly	▶ Nicotinic acetylcholine-receptor antagonist
Advantage Multi (Bayer Animal Health)	▶ Imidacloprid	▶ Dogs: 7 weeks ▶ Cats: 9 weeks (do not use canine product on cats)	Monthly spot-on	▶ Nicotinic acetylcholine-receptor antagonist
K9 Advantix (Bayer Animal Health)	▶ Imidacloprid ▶ Permethrin	▶ Dogs: 7 weeks	Monthly spot-on	▶ Nicotinic acetylcholine-receptor antagonist ▶ Permethrin: Sodium channel modulator
Revolution (Pfizer Animal Health)	▶ Selamectin	▶ Dogs: 8 weeks ▶ Cats: 8 weeks	Monthly spot-on	▶ Chloride channel activator
ProMeris for dogs (Fort Dodge Animal Health)	▶ Metaflumizone	▶ Dogs: 8 weeks	Monthly spot-on	▶ Voltage-dependent sodium channel blocker
ProMeris for cats (Fort Dodge Animal Health)	▶ Metaflumizone	▶ Cats: 8 weeks	Monthly spot-on	▶ Voltage-dependent sodium channel blocker
Comfortis (Eli Lilly)	▶ Spinosad	▶ Dogs: 14 weeks	Monthly chewable tablet	▶ Nicotinic acetylcholine-receptor agonist (spinosyn)
Capstar (Novartis Animal Health)	▶ Nitenpyram	▶ Dogs: 4 weeks and 2+ lb ▶ Cats: 4 weeks and 2+ lb	One tablet prn or daily/EOD	▶ Nicotinic acetylcholine-receptor antagonist
Vectra 3D for Dogs^c (Summit VetPharm)	▶ Dinotefuran ▶ Permethrin ▶ Pyriproxyfen	▶ Dogs: 7 weeks	Monthly spot-on	▶ Dinotefuran: Nicotinic acetylcholine-receptor antagonist ▶ Permethrin: Sodium channel modulator ▶ Pyriproxyfen: Juvenile hormone analogue (IGR)
Vectra for Cats & Kittens (Summit VetPharm)	▶ Dinotefuran ▶ Pyriproxyfen	▶ Cats: 8 weeks	Monthly spot-on	▶ Dinotefuran: Nicotinic acetylcholine-receptor antagonist ▶ Pyriproxyfen: Juvenile hormone analogue (IGR)

^aAdapted with permission from Mark Grossman and Carol Foil, Veterinary Information Network 2008. For the complete chart, visit www.vin.com/Link.plx?ID=37277. (EOD = every other day; prn = as needed)

^bIngredients active against other parasites not listed.

^cThis chart reflects the latest revision by VIN in September 2008. Please note that the following product has since become available: Vectra for Dogs and Puppies.