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PRODUCT	3 DOSES	6 DOSES	12 DOSES	OFFER CODE
 Credelio (lotilaner)	\$5 Rebate	\$15 Rebate	\$35 Rebate	CRD2022
 Credelio CAT (lotilaner)	\$5 Rebate	\$15 Rebate	N/A	CAT2022
 INTERCEPTOR PLUS (milbemycin oxime/praziquantel) <small>Offer also valid for Interceptor® (milbemycin oxime) purchases</small>	N/A	\$6 Rebate	\$15 Rebate	INT2022
 Triflexis (spinosad+milbemycin oxime)	N/A	\$20 Rebate	\$45 Rebate	TFX2022
PRODUCT	1 COLLAR			OFFER CODE
 Seresto	\$10 Rebate			SER2022
PRODUCT	6 DOSES			OFFER CODE
 advantage multi (imidacloprid+moxidectin)	\$20 Rebate			MULTI2022
PRODUCTS	1 Seresto COLLAR 6 DOSES of Interceptor/Interceptor Plus			OFFER CODE
 Seresto  INTERCEPTOR PLUS (milbemycin oxime/praziquantel) <small>Offer also valid for Interceptor® (milbemycin oxime) purchases</small>	\$20 Rebate			INSERT22
PRODUCTS	6 DOSES of each product	12 DOSES of each product	OFFER CODE	
 Credelio (lotilaner)  INTERCEPTOR PLUS (milbemycin oxime/praziquantel) <small>Offer also valid for Interceptor® (milbemycin oxime) purchases</small>	\$25 Rebate	\$75 Rebate	INCR22	
PRODUCTS	6 DOSES of each product			OFFER CODE
 Credelio CAT (lotilaner)  Interceptor (milbemycin oxime)	\$25 Rebate			INCAT22

Scan **QR code** on back page or visit ElancoRebates.com to redeem your rebate.

PRODUCTS	6 DOSES of each product			OFFER CODE
 	\$35 Rebate			CRDC22
PRODUCT	30 TABLETS 20mg	30 TABLETS 60mg	30 TABLETS 100mg	OFFER CODE
 <small>*Galliprant rebate values reflect the amount paid for first rebate submission. Rebate values will increase after first submission. Ask veterinarian for full offer details.</small>	\$15* Rebate	\$25* Rebate	\$35* Rebate	GPT2022
	90 TABLETS 20mg	90 TABLETS 60mg	90 TABLETS 100mg	
	\$45* Rebate	\$65* Rebate	\$95* Rebate	
PRODUCT	30 TABLETS 12mg, 25mg, 75mg, 100mg	60 TABLETS 12mg, 25mg, 75mg, 100mg	90 TABLETS 12mg, 25mg, 75mg, 100mg	OFFER CODE
	\$15 Rebate	\$30 Rebate	\$45 Rebate	DMX2022
PRODUCT	120 TABLETS 25mg, 75mg and 100mg			OFFER CODE
	\$20 Rebate			QUE2022
PRODUCT	15mL			OFFER CODE
	\$10 Rebate			ELU2022
PRODUCT	30mL			OFFER CODE
	\$25 Rebate			ENT2022
PRODUCTS			PER PRODUCT	OFFER CODE
            			\$5 Rebate	DVM2022

Savings in form of a rebate. Offer valid for purchases dated 1/1/2022 – 12/31/2022 and requests must be received on or before 3/1/2023. Limit 10 rebates per brand per household, some exclusions apply. This offer may not be combined with any other offer. For rebate questions, call 877-246-7654.

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**SCAN
QR
CODE!**



ADVANTAGE MULTI™

for cats

(imidacloprid + moxidectin) Topical Solution

Once-a-month topical solution for cats for the prevention of heartworm disease, kills adult fleas, is indicated for the treatment of flea infestations, as well as the treatment and control of ear mite infestations and intestinal parasite infections in cats and kittens 9 weeks of age and older and that weigh at least 2 lbs.

Once-a-month topical solution for ferrets for the prevention of heartworm disease, kills adult fleas, and is indicated for the treatment of flea infestations. Indicated for ferrets that weigh at least 2 lbs.

CAUTION:
Federal (U.S.A.) Law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION:
Advantage Multi for Cats (10 % imidacloprid + 1 % moxidectin) is a colorless to yellow ready-to-use solution packaged in single-dose applicator tubes for topical treatment of cats. The formulation and dosage schedule are designed to provide a minimum of 4.5 mg/lb (10.0 mg/kg) imidacloprid and 0.45 mg/lb (1.0 mg/kg) moxidectin based on body weight. Imidacloprid is a chloronicotinyl nitroguanidine insecticide. The chemical name of imidacloprid is 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine. Moxidectin is a semisynthetic macrocyclic lactone endectocide derived from the actinomycete *Streptomyces cyaneogriseus noncyanogenus*. The chemical name of moxidectin is [6R, 23E, 25S(E)]-5-O-Demethyl-28-deoxy-25-(1,3-dimethyl-1-butenyl)-6,28-epoxy-23-(methoxyimino) milbemycin B.

INDICATIONS:
Advantage Multi for Cats is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis*. *Advantage Multi for Cats* kills adult fleas (*Ctenocephalides felis*) and is indicated for the treatment of flea infestations. *Advantage Multi for Cats* is also indicated for the treatment and control of ear mite (*Otodectes cynotis*) infestations and the following intestinal parasites:
WARNINGS:
Do not use on sick, debilitated, or underweight cats (See ADVERSE REACTIONS).
Do not use on cats less than 9 weeks of age or less than 2 lbs. body weight.

Intestinal Parasite		Intestinal Stage		
		Adult	Immature Adult	Fourth Stage Larvae
Hookworm Species	<i>Ancylostoma tubaeforme</i>	X	X	X
Roundworm Species	<i>Toxocara cati</i>	X		X

HUMAN WARNINGS:
Not for human use. Keep out of the reach of children.
Children should not come in contact with the application site for 30 minutes after application.

Causes eye irritation. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Exposure to the product has been reported to cause headache; dizziness; and redness, burning, tingling, or numbness of the skin.
Wash hands thoroughly with soap and warm water after handling.
If contact with eyes occurs, hold eyelids open and flush with copious amounts of water for 15 minutes. If eye irritation develops or persists, contact a physician. If swallowed, call poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or physician. People with known hypersensitivity to benzyl alcohol, imidacloprid or moxidectin should administer the product with caution. In case of allergic reaction, contact a physician. If contact with skin or clothing occurs, take off contaminated clothing. Wash skin immediately with plenty of soap and water. Call a poison control center or physician for treatment advice. The Safety Data Sheet (SDS) provides additional occupational safety information. For a copy of the Safety Data Sheet (SDS) or to report adverse reactions call Elanco at 1-800-422-9874. For consumer questions call 1-800-255-6826.

PRECAUTIONS:
Do not dispense dose applicator tubes without complete safety and administration information. Avoid oral ingestion. Cats may experience hypersalivation, tremors, vomiting and decreased appetite if *Advantage Multi for Cats* is inadvertently administered orally or through grooming/licking of the application site.

The safety of *Advantage Multi for Cats* has not been established in breeding, pregnant, or lactating cats.
The effectiveness of *Advantage Multi for Cats* against heartworm infections (*D. immitis*) after bathing has not been evaluated in cats.
Use of this product in geriatric patients with subclinical conditions has not been adequately studied. Several otherwise healthy, thin geriatric cats experienced prolonged lethargy and sleepiness after using this drug.

(See ADVERSE REACTIONS.)
ADVERSE REACTIONS:
Field Study: Following treatment with *Advantage Multi for Cats* or an active control, cat owners reported the following post-treatment reactions:

OBSERVATION	Advantage Multi n = 113	Active Control n = 38
Lethargy (protracted sleeping, poorly responsive)	3 cats* (2.7 %)	None observed
Behavioral changes (e.g., agitated, excessive grooming, hiding, pacing, spinning)	9 cats (8.0 %)	1 cat (2.6 %)
Discomfort (e.g., scratching, rubbing, head-shaking)	5 cats (4.4 %)	None observed
Hypersalivation (within 1 hour after treatment)	3 cats (2.7 %)	None observed
Polydipsia	3 cats (2.7 %)	None observed
Coughing and gagging	1 cat (0.9 %)	None observed

* These three cats were from the same household and included one 13-yr-old cat in good health, one 15-yr-old FIV positive cat in good health, and one 15-yr-old, underweight cat in fair health. Lethargy was noted for 24 to 36 hrs after the first treatment only; one cat was unsteady at 48 hrs. These cats were not on other medications.
During another field study, a 16-year-old cat with renal disease slept in the same place without moving for two days following application.

(See PRECAUTIONS.)
Laboratory Effectiveness Studies: *Advantage Multi for Cats* was administered at the recommended dose to 215 cats in 20 effectiveness studies. One random-sourced cat exhibited signs consistent with either moxidectin toxicity or viral respiratory disease and died 26 hours after product application; necropsy findings were inconclusive as to the cause of death. A second cat that became ill 3 days after application of *Advantage Multi for Cats* responded to treatment for respiratory infection and completed the study. A third cat became ill on day 3 and died with signs and lesions attributable to panleukopenia on day 7 after moxidectin application.

Post-Approval Experience: The following adverse events are based on post-approval adverse drug experience reporting. Not all adverse reactions are reported to FDA CVM. It is not always possible to reliably estimate the adverse event frequency or establish a causal relationship to product exposure using this data. The following adverse events in cats are listed in decreasing order of reporting frequency: hypersalivation, depression/lethargy, application site reactions (alopecia, pruritus, lesions, and erythema), decreased appetite, vomiting, hyperactivity, ataxia, trembling, and behavior disorder (hiding).
In some cases death has been reported.

In humans, ocular and dermal irritation, nausea, numbness or tingling of the mouth and lips, anaphylaxis, pruritus, vomiting, and tongue/taste abnormalities have been reported following exposure to this product.
To report suspected adverse events and/or obtain a copy of the SDS or for technical assistance, call Elanco at 1-800-422-9874.

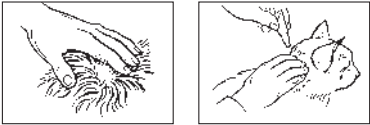

For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reportanimalae>.

DOSAGE AND ADMINISTRATION:
The recommended minimum dose is 4.5 mg/lb (10.0 mg/kg) imidacloprid and 0.45 mg/lb (1.0 mg/kg) moxidectin, once a month, by topical administration.
Do not apply to irritated skin.

1. Remove one dose applicator tube from the package. As specified in the following table, administer the entire contents of the *Advantage Multi for Cats* tube that correctly corresponds with the body weight of the cat.

Cat (lbs.)	Advantage Multi For Cats	Volume (mL)	Imidacloprid (mg)	Moxidectin (mg)
2–5	<i>Advantage Multi 5</i>	0.23	23	2.3
5.1–9	<i>Advantage Multi 9</i>	0.4	40	4
9.1–18*	<i>Advantage Multi 18</i>	0.8	80	8

* Cats over 18 lbs. should be treated with the appropriate combination of *Advantage Multi for Cats* tubes.

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2. While holding the tube in an upright position, remove the cap from the tube.
 3. Turn the cap over and push the other end of cap onto the tip of the tube.
 4. Twist the cap to break the seal and then remove cap from the tube.
 5. Part the hair on the back of the cat's neck at the base of the head, until the skin is visible. Place the tip of the tube on the skin and apply the entire contents directly on the exposed skin. Lift tube away from skin before releasing pressure on tube.

Do not get this product in the cat's mouth or eyes or allow the cat to lick the application site for 30 minutes. Treatment at the base of the head will minimize the opportunity for ingestion by grooming. In households with multiple pets, keep animals separated to prevent licking of the application site.

Stiff, matted hair or a damp, oily appearance of the hair may be observed at the application site on some cats. This is temporary and does not affect the safety and effectiveness of the product.
Heartworm Prevention: For prevention of heartworm disease, *Advantage Multi for Cats* should be administered at one-month intervals. *Advantage Multi for Cats* may be administered year-around or at a minimum should start one month before the first expected exposure to mosquitoes and should continue at monthly intervals until one month after the last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer *Advantage Multi for Cats* immediately and resume the monthly dosing schedule. When replacing another heartworm preventative product in a heartworm prevention program, the first treatment with *Advantage Multi for Cats* 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 *Advantage Multi for Cats* (See ADVERSE REACTIONS – Post-Approval Experience).

Flea Treatment: For the treatment of flea infestations, *Advantage Multi for Cats* should be administered at one-month intervals. If the cat is already infested with fleas when the first dose of *Advantage Multi for Cats* is administered, adult fleas on the cat will be killed. However, re-infestation from the emergence of pre-existing pupae in the environment may continue to occur for six weeks or longer after treatment is initiated. Cats treated with imidacloprid, including those with pre-existing flea allergy dermatitis have shown clinical improvement as a direct result of elimination of fleas from the cat.

Ear Mite Treatment: For the treatment of ear mites (*Otodectes cynotis*), *Advantage Multi for Cats* should be administered once as a single topical dose. Monthly use of *Advantage Multi for Cats* will control any subsequent ear mite infestations.

Intestinal Nematode Treatment: For the treatment and control of intestinal hookworm infections caused by *Ancylostoma tubaeforme* (adults, immature adults and fourth stage larvae) and roundworm infections caused by *Toxocara cati* (adults and fourth stage larvae), *Advantage Multi for Cats* should be administered once as a single topical dose.

ANIMAL SAFETY:

Studies in Kittens: *Advantage Multi for Cats* was topically applied at 0, 1, 3, and 5X the maximum dose to 48 healthy 9-week-old kittens on days 0, 28, and 56.

Lethargy was observed in 1 kitten from the 3X group and 1 from the 5X group on the day after initial treatment; the kitten from the 3X group was also disoriented and ataxic. One kitten from the 3X group had a slow pupillary light response two days after treatment and one had tremors the day after treatment. Hypersalivation was seen in one kitten from the 5X group approximately six hours post-treatment. One kitten from the 3X group was scratching at the treatment site 2 days after treatment. Slight cough was noted in 7 different kittens (2-0X, 2-1X, and 3-5X) during the 13-day period following the first treatment. Histopathology showed granulomatous inflammation at the treatment site in three 1X kittens. Causal relationship to the drug could not be determined. Pulmonary inflammation (1-5X) and lymphoid hyperplasia (2-1X, 4-3X) were seen in treated kittens. In a second study, *Advantage Multi for Cats* was topically applied at 0, 1.7, 5.2 and 8.7X the maximum dose to 48 healthy 9-week-old kittens every two weeks for 6 doses. One kitten in the 8.7X group apparently ingested an unknown amount of the drug and developed the following clinical signs prior to euthanasia: mydriasis, salivation, depression, vomiting, unsteadiness, rapid to slow to difficult breathing, poor pupillary response, generalized tremors, inability to move, and nystagmus. Two kittens in the 5.2X group developed mydriasis, salivation, depression, squinting, and poor appetite. A kitten in the 1.7X group developed mydriasis.

Dose Tolerance Study: Eight healthy juvenile cats were topically dosed with a single application of *Advantage Multi for Cats* at 10 times the recommended dose volume. Mild, transient hypersalivation occurred in two of the cats.

Oral Study in Cats: The oral safety of *Advantage Multi for Cats* was tested in case of accidental oral ingestion. The maximum topical dose was orally administered to twelve healthy 9-week-old kittens. Hypersalivation (8 of 12 kittens) and vomiting (12 of 12 kittens) were observed immediately post-treatment. Tremors developed in one kitten within 1 hour, resolving without treatment within the next hour. All 12 kittens were either anorexic or had decreased appetite for at least 1 day following treatment. In 3 kittens, the anorexia or decreased appetite continued into the second week following treatment. There was a post-treatment loss of body weight in treated kittens compared to control kittens. In a pilot safety study using kittens younger in age and lighter in weight than allowed by product labeling, an 8-week old kitten weighing 0.6 kg orally received 2X of the label topical dose (0.46 mL/kg). Immediately after dosing, it vomited, had labored breathing and slight tremors. Within 4 hours, it was normal, but was found dead on day 6. Necropsy could not determine the cause of death.

Study in Heartworm Positive Cats: Young adult cats were inoculated subcutaneously with third-stage *D. immitis* larvae. At 243–245 days post-infection, immunoserology and echocardiography were performed to identify cats with adult heartworm burdens similar to naturally-acquired infections. Two groups were treated topically with either *Advantage Multi for Cats* at the label dose or placebo, once every 28 days, for three consecutive treatments. A third group was treated topically, once, with *Advantage Multi for Cats* at 5X the label dose. Sporadic vomiting and labored breathing related to heartworm burden were observed in the treatment and control groups. There was no difference between treatment groups in the numbers of adult *D. immitis* recovered at study conclusion. No adverse reactions were associated with the topical application of *Advantage Multi for Cats* to experimentally heartworm-infected cats.

FERRETS

Use only the 0.4 mL ADVANTAGE MULTI for Cats in ferrets. The 0.23 mL size does not provide an effective dose and the 0.8mL size could result in an overdose.

INDICATIONS:

For ferrets:
Advantage Multi for Cats is indicated for the prevention of heartworm disease in ferrets caused by *Dirofilaria immitis*. *Advantage Multi for Cats* kills adult fleas (*Ctenocephalides felis*) and is indicated for the treatment of flea infestations on ferrets.

WARNINGS:
Do not use on sick or debilitated ferrets.

PRECAUTIONS:
Do not dispense dose applicator tubes without complete safety and administration information. The safety of *Advantage Multi for Cats* has not been established in breeding, pregnant, and lactating ferrets.

Treatment of ferrets weighing less than 2.0 lbs (0.9 kg) should be based on a risk-benefit assessment.

The effectiveness of *Advantage Multi for Cats* in ferrets weighing over 4.4 lbs (2.0 kg) has not been established.

ADVERSE REACTIONS:

Field Safety Study in Ferrets: *Advantage Multi for Cats* was topically administered to 131 client-owned ferrets at the recommended dose volume (0.4 mL). The ferrets ranged in age from 3 months to 7 years, and weighed between 0.5 and 1.86 kg (1.1 to 4.1 lbs). The dose of imidacloprid ranged between 21.5 to 80.2 mg/kg in this study. The dose of moxidectin ranged between 2.2 to 8.0 mg/kg in this study.

Adverse reactions in ferrets following treatment included: pruritus/scratching, scabbing, redness, wounds and inflammation at the treatment site; lethargy; and chemical odor. These adverse reactions resolved without additional therapy. Owners also reported stiffening of the hair at the treatment site, however, this is expected with application of a topical product and is not considered an adverse reaction.

Three human adverse reactions were reported. An owner's finger became red following skin contact with the product. One owner reported a headache caused by the chemical odor of the product. One owner reported a tingling sensation of the lips after kissing the treatment site.

Foreign Market Experience: Because the following events were reported voluntarily during post-approval use of the product in foreign markets, it is not always possible to reliably establish a causal relationship to drug exposure.

Adverse events reported in ferrets topically treated with 0.4 mL imidacloprid + moxidectin for cats included: malaise, vomiting, diarrhea, shaking, mydriasis, hypersalivation with abnormal neurologic signs, seizures, death, generalized hematoma of the body, and alopecia at the treatment site. Adverse reactions in humans included: burning, tingling, numbness, bad taste in the mouth, dizziness, and headache.

ANIMAL SAFETY:

Ferrets: *Advantage Multi for Cats* was topically applied at 5X the recommended dose volume to six healthy 9-month-old ferrets on Study Days 0, 14, 28, and 42. Because the weights of the ferrets in this study ranged from 2.0 to 4.0 lb (0.9 kg to 1.8 kg), ferrets received a range of dosages from 51.0 to 106.9 mg/lb (112 to 235 mg/kg) of imidacloprid and 5 to 10.5 mg/lb (11 to 23 mg/kg) of moxidectin. The following abnormal clinical signs were reported during the study: wet, matted, and/or greasy appearance to the hair, shaking of the head and/or body, rubbing of dose site on cage, and shedding. Slight increases in phosphorous, potassium, aspartate aminotransferase (AST), and glucose were seen during the study, however, no clinical signs related to these bloodwork changes were reported.

Oral Safety Study: *Advantage Multi for Cats* was orally administered at the recommended dose volume (0.4 mL) to eight healthy ferrets on Study Day 0. Ferrets were 78 to 101 days old (11.1 to 14.4 weeks) and weighed between 1.1 to 1.8 lb (0.5 to 0.8 kg) body weight on the day of dosing, resulting in doses ranges of 22.0–36.8 mg/lb (48.3–81.0 mg/kg) imidacloprid and 2.2–3.7 mg/lb (4.8–8.0 mg/kg) moxidectin. The following abnormal clinical signs were reported immediately following oral administration of *Advantage Multi for Cats*: vomiting (one ferret) and ataxia (two ferrets). All abnormalities resolved without treatment or supportive care.

DOSAGE AND ADMINISTRATION:

For ferrets:
The recommended minimum dose for a ferret is 9 mg/lb (20 mg/kg) imidacloprid and 0.9 mg/lb (2 mg/kg) moxidectin, once a month, by topical administration.

Ferret (lbs.)	Advantage Multi For Cats	Volume (mL)	Imidacloprid (mg)	Moxidectin (mg)
2.0–4.4	Advantage Multi 9	0.4	40	4

Only the 0.4 mL applicator tube volume (Advantage Multi 9) should be used on ferrets.

Do not apply to irritated skin.

1. Remove one dose applicator tube from the package. Administer the entire contents of the *Advantage Multi for Cats* tube (0.4 mL).



2. While holding the tube in an upright position, remove the cap from the tube.
3. Turn the cap over and push the other end of cap onto the tip of the tube.
4. Twist the cap to break the seal and then remove cap from the tube.



5. Part the hair on the back of the ferret's neck at the base of the head, until the skin is visible. Place the tip of the tube on the skin and apply the entire contents directly on the exposed skin. Lift tube away from skin before releasing pressure on tube.

Do not get this product in the ferret's mouth or eyes or allow the ferret to lick the application site for 30 minutes. Treatment at the base of the head will minimize the opportunity for ingestion by grooming. In households with multiple pets, keep animals separated to prevent licking of the application site.

Stiff, matted hair or a damp, oily appearance of the hair may be observed at the application site on some ferrets. This is temporary and does not affect the safety or effectiveness of the product.

Heartworm Prevention: For prevention of heartworm disease, *Advantage Multi for Cats* should be administered at one-month intervals. *Advantage Multi for Cats* may be administered year-round or at a minimum should start one month before the first expected exposure to mosquitoes and should continue at monthly intervals until one month after the last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer *Advantage Multi for Cats* immediately and resume the monthly dosing schedule.

Flea Treatment: For the treatment of flea infestations on ferrets, *Advantage Multi for Cats* should be administered at one-month intervals. If the ferret is already infested with fleas when the first dose of *Advantage Multi for Cats* is administered, adult fleas on the ferret will be killed. However, re-infestation from the emergence of pre-existing pupae in the environment may continue to occur for six weeks or longer after treatment is initiated.

STORAGE INFORMATION:

Store at temperatures between 4 °C (39 °F) and 25 °C (77 °F), avoiding excess heat or cold.

HOW SUPPLIED:

Applications Per Package
3 x 0.23 mL tubes
6 x 0.4 mL tubes
6 x 0.8 mL tubes
LV2103

March, 2021

Approved by FDA under NADA # 141-254

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Made in Germany.

Elanco US Inc
Shawnee, KS 66216 U.S.A.



ADVANTAGE MULTI™

for dogs

(imidacloprid + moxidectin) Topical Solution

Once-a-month topical solution for the prevention of heartworm disease, the treatment of circulating microfilariae, kills adult fleas, is indicated for the treatment of flea infestations, the treatment and control of sarcoptic mange, as well as the treatment and control of intestinal parasite infections in dogs and puppies that are at least 7 weeks of age and that weigh at least 3 lbs.

WARNING

• DO NOT ADMINISTER THIS PRODUCT ORALLY

• For the first 30 minutes after application ensure that dogs cannot lick the product from application sites on themselves or other treated animals.

• Children should not come in contact with application sites for two (2) hours after application.

(See Contraindications, Warnings, Human Warnings, and Adverse Reactions, for more information)

CAUTION:

Federal (U.S.A.) Law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION:

Advantage Multi for Dogs (10 % imidacloprid + 2.5 % moxidectin) is a colorless to yellow ready-to-use solution packaged in single dose applicator tubes for topical treatment of dogs. The formulation and dosage schedule are designed to provide a minimum of 4.5 mg/lb (10 mg/kg) imidacloprid and 1.1 mg/lb (2.5 mg/kg) moxidectin based on body weight.

Imidacloprid is a chloronicotinyl nitroguanidine insecticide. The chemical name for imidacloprid is 1-[[6-(Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine. Moxidectin is a semisynthetic macrocyclic lactone endectocide derived from the actinomycete *Streptomyces cyaneogriseus noncyanogenus*. The chemical name for moxidectin is [6R, 23E, 25S(E)]-5-O- Demethyl-28-deoxy-25-(1,3-dimethyl-1-butenyl)-6,28-epoxy-23-(methoxyimino) milbemycin B.

INDICATIONS:

Advantage Multi for Dogs is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis* and the treatment of *Dirofilaria immitis* circulating microfilariae in heartworm-positive dogs. *Advantage Multi for Dogs* kills adult fleas and is indicated for the treatment of flea infestations (*Ctenocephalides felis*). *Advantage Multi for Dogs* is indicated for the treatment and control of sarcoptic mange caused by *Sarcoptes scabiei* var. *canis*. *Advantage Multi for Dogs* is also indicated for the treatment and control of the following intestinal parasites:

Intestinal Parasite		Intestinal Stage		
		Adult	Immature Adult	Fourth Stage Larvae
Hookworm Species	<i>Ancylostoma caninum</i>	X	X	X
	<i>Uncinaria stenocephala</i>	X	X	X
Roundworm Species	<i>Toxocara canis</i>	X		X
	<i>Toxascaris leonina</i>	X		
Whipworm	<i>Trichuris vulpis</i>	X		

CONTRAINDICATIONS:

Do not administer this product orally. (See WARNINGS.)

Do not use this product (containing 2.5 % moxidectin) on cats.

WARNINGS

For the first 30 minutes after application:

Ensure that dogs cannot lick the product from application sites on themselves or other treated dogs, and

Separate treated dogs from one another and from other pets to reduce the risk of accidental ingestion.

Ingestion of this product by dogs may cause serious adverse reactions including depression, salivation, dilated pupils, incoordination, panting, and generalized muscle tremors.

In avermectin sensitive dogs,^a the signs may be more severe and may include coma and death.^b

^a Some dogs are more sensitive to avermectins due to a mutation in the MDR1 gene. Dogs with this mutation may develop signs of severe avermectin toxicity if they ingest this product. The most common breeds associated with this mutation include Collies and Collie crosses.

^b Although there is no specific antagonist for avermectin toxicity, even severely affected dogs have completely recovered from avermectin toxicity with intensive veterinary supportive care.

HUMAN WARNINGS:

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

Children should not come in contact with application sites for two (2) hours after application.

Causes eye irritation. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Exposure to the product has been reported to cause headache; dizziness; and redness, burning, tingling, or numbness of the skin. Wash hands thoroughly with soap and warm water after handling.

If contact with eyes occurs, hold eyelids open and flush with copious amounts of water for 15 minutes. If eye irritation develops or persists, contact a physician. If swallowed, call poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or physician.

People with known hypersensitivity to benzyl alcohol, imidacloprid or moxidectin should administer the product with caution. In case of allergic reaction, contact a physician. If contact with skin or clothing occurs, take off contaminated clothing. Wash skin immediately with plenty of soap and water. Call a poison control center or physician for treatment advice.

The Safety Data Sheet (SDS) provides additional occupational safety information. For a copy of the Safety Data Sheet (SDS) or to report adverse reactions call Elanco at 1-800-422-9874. For consumer questions call 1-800-255-6826.

PRECAUTIONS:

Do not dispense dose applicator tubes without complete safety and administration information. Use with caution in sick, debilitated, or underweight animals. The safety of *Advantage Multi for Dogs* has not been established in breeding, pregnant, or lactating dogs. The safe use of *Advantage Multi for Dogs* has not been established in puppies and dogs less than 7 weeks of age or less than 3 lbs. body weight.

Prior to administration of *Advantage Multi for Dogs*, dogs should be tested for existing heartworm infection. At the discretion of the veterinarian, infected dogs should be treated with an adulticide to remove adult heartworms. The safety of *Advantage Multi for Dogs* has not been evaluated when administered on the same day as an adulticide. *Advantage Multi for Dogs* is not effective against adult *D. immitis*. Although the number of circulating microfilariae is substantially reduced in most dogs following treatment with *Advantage Multi for Dogs*, the microfilaria count in some heartworm-positive dogs may increase or remain unchanged following treatment with *Advantage Multi for Dogs* alone or in a dosing regimen with melarsomine dihydrochloride.

(See ADVERSE REACTIONS and ANIMAL SAFETY – Safety Study in Heartworm-Positive Dogs.)

Advantage Multi for Dogs has not been evaluated in heartworm-positive dogs with Class 4 heartworm disease.

ADVERSE REACTIONS:

Heartworm-Negative Dogs

Field Studies: Following treatment with *Advantage Multi for Dogs* or an active control, dog owners reported the following post-treatment reactions:

OBSERVATION	Advantage Multi n = 128	Active Control n = 68
Pruritus	19 dogs (14.8%)	7 dogs (10.3%)
Residue	9 dogs (7.0%)	5 dogs (7.4%)
Medicinal Odor	5 dogs (3.9%)	None observed
Lethargy	1 dog (0.8%)	1 dog (1.5%)
Inappetence	1 dog (0.8%)	1 dog (1.5%)
Hyperactivity	1 dog (0.8%)	None observed

During a field study using 61 dogs with pre-existing flea allergy dermatitis, one (1.6 %) dog experienced localized pruritus immediately after imidacloprid application, and one investigator noted hyperkeratosis at the application site of one dog (1.6 %).

In a field safety and effectiveness study, *Advantage Multi for Dogs* was administered to 92 client-owned dogs with sarcoptic mange. The dogs ranged in age from 2 months to 12.5 years and ranged in weight from 3 to 231.5 pounds. Adverse reactions in dogs treated with *Advantage Multi for Dogs* included hematochezia, diarrhea, vomiting, lethargy, inappetence, and pyoderma.

Laboratory Effectiveness Studies: One dog in a laboratory effectiveness study experienced weakness, depression, and unsteadiness between 6 and 9 days after application with *Advantage Multi for Dogs*. The signs resolved without intervention by day 10 post-application. The signs in this dog may have been related to peak serum levels of moxidectin, which vary between dogs, and occur between 1 and 21 days after application of *Advantage Multi for Dogs*.

The following clinical observations also occurred in laboratory effectiveness studies following application with *Advantage Multi for Dogs* and may be directly attributed to the drug or may be secondary to the intestinal parasite burden or other underlying conditions in the dogs: diarrhea, bloody stools, vomiting, anorexia, lethargy, coughing, ocular discharge and nasal discharge. Observations at the application sites included damp, stiff or greasy hair, the appearance of a white deposit on the hair, and mild erythema, which resolved without treatment within 2 to 48 hours.

Heartworm-Positive Dogs

Field Study: A 56-day field safety study was conducted in 214 *D. immitis* heartworm and microfilaria positive dogs with Class 1, 2 or 3 heartworm disease. All dogs received *Advantage Multi for Dogs* on Study Days 0 and 28; 108 dogs also received melarsomine dihydrochloride on Study Days – 14, 14, and 15. All dogs were hospitalized for a minimum of 12 hours following each treatment. Effectiveness against circulating *D. immitis* microfilariae was > 90 % at five of six sites; however, one site had an effectiveness of 73.3 %. The microfilaria count in some heartworm-positive dogs increased or remained unchanged following treatment with *Advantage Multi for Dogs* alone or in a dosing regimen with melarsomine dihydrochloride.

Following treatment with *Advantage Multi for Dogs* alone or in a dosing regimen with melarsomine dihydrochloride, the following adverse reactions were observed:

Adverse Reaction	Dogs Treated with Advantage Multi for Dogs Only n = 106	Dogs Treated with Advantage Multi for Dogs + Melarsomine n = 108
Cough	24 (22.6%)	25 (23.1%)
Lethargy	14 (13.2%)	42 (38.9%)
Vomiting	11 (10.4%)	18 (16.7%)
Diarrhea, including hemorrhagic	10 (9.4%)	22 (20.4%)
Inappetence	7 (6.6%)	19 (17.6%)
Dyspnea	6 (5.7%)	10 (9.3%)
Tachypnea	1 (< 1%)	7 (6.5%)
Pulmonary Hemorrhage	0	1 (< 1%)
Death	0	3 (2.8%)

Three dogs treated with *Advantage Multi for Dogs* in a dosing regimen with melarsomine dihydrochloride died of pulmonary embolism from dead and dying heartworms. One dog, treated with *Advantage Multi for Dogs* and melarsomine dihydrochloride, experienced pulmonary hemorrhage and responded to supportive medical treatment. Following the first treatment with *Advantage Multi for Dogs* alone, two dogs experienced adverse reactions (coughing, vomiting, and dyspnea) that required hospitalization. In both groups, there were more adverse reactions to *Advantage Multi for Dogs* following the first treatment than the second treatment. To report a suspected adverse reaction, call 1-800-422-9874.

Post-Approval Experience

The following adverse events are based on post-approval adverse drug experience reporting. Not all adverse reactions are reported to FDA CVM. It is not always possible to reliably estimate the adverse event frequency or establish a causal relationship to product exposure using this data. The following adverse events in dogs are listed in decreasing order of reporting frequency: depression/ lethargy, vomiting, pruritus, diarrhea, anorexia, hyperactivity, ataxia, trembling, hypersalivation, application site reactions (alopecia, pruritus, lesions, and erythema), seizures, and anaphylaxis/anaphylactic reactions (hives, urticaria, facial swelling, edema of the head).

Serious reactions, including neurologic signs and death have been reported when cats have been exposed (orally and topically) to this product.

In humans, nausea, numbness or tingling of the mouth/lips and throat, ocular and dermal irritation, pruritus, headache, vomiting, diarrhea, depression and dyspnea have been reported following exposure to this product. To report suspected adverse events and/or obtain a copy of the SDS or for technical assistance, call Elanco at 1-800-422-9874. For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reportanimalae>.

DOSAGE AND ADMINISTRATION:

The recommended minimum dose is 4.5 mg/lb (10 mg/kg) imidacloprid and 1.1 mg/lb (2.5 mg/kg) moxidectin, once a month, by topical administration. Do not apply to irritated skin.

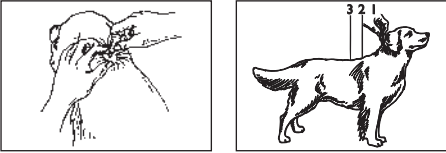
1. Remove one dose applicator tube from the package. As specified in the following table, administer the entire contents of the *Advantage Multi for Dogs* tube that correctly corresponds with the body weight of the dog.

Dog (lbs.)	Advantage Multi For Dogs	Volume (mL)	Imidacloprid (mg)	Moxidectin (mg)
3–9	Advantage Multi 9	0.4	40	10
9.1–20	Advantage Multi 20	1.0	100	25
20.1–55	Advantage Multi 55	2.5	250	62.5
55.1–88	Advantage Multi 88	4.0	400	100
88.1–110*	Advantage Multi 110	5.0	500	125

* Dogs over 110 lbs. should be treated with the appropriate combination of *Advantage Multi for Dogs* tubes.



2. While holding the tube in an upright position, remove the cap from the tube.
3. Turn the cap over and push the other end of cap onto the tip of the tube.
4. Twist the cap to break the seal and then remove cap from the tube.



5. The dog should be standing for application. Part the hair on the back of the dog between the shoulder blades until the skin is visible. For dogs weighing 20 lbs. or less, place the tip of the tube on the skin and apply the entire contents directly on the exposed skin at one spot between the shoulder blades. For dogs weighing more than 20 lbs., place the tip of the tube on the skin and apply the entire contents directly on the exposed skin at 3 or 4 spots on the top of the backline from the base of the neck to the upper back in an area inaccessible to licking. Do not apply an amount of solution at any one location that could run off the side of the dog.

Do not let this product get in your dog's mouth or eyes. **Do not allow the dog to lick any of the application sites for 30 minutes.** In households with multiple pets, keep each treated dog separated from other treated dogs and other pets for 30 minutes after application to prevent licking the application sites.

(See WARNINGS.)

Stiff hair, a damp appearance of the hair, pink skin, or a slight powdery residue may be observed at the application site on some animals. This is temporary and does not affect the safety and effectiveness of the product.

Shampooing 90 minutes after treatment does not reduce the effectiveness of *Advantage Multi for Dogs* in the prevention of heartworm disease.

Shampooing or water immersion 4 days after treatment will not reduce the effectiveness of *Advantage Multi for Dogs* in the treatment of flea infestations. However, shampooing as often as once weekly may reduce the effectiveness of the product against fleas.

Heartworm Prevention: For prevention of heartworm disease, *Advantage Multi for Dogs* should be administered at one-month intervals. *Advantage Multi for Dogs* may be administered year-round or at a minimum should start one month before the first expected exposure to mosquitoes and should continue at monthly intervals until one month after the last exposure to mosquitoes. If a dose is missed and a 30-day interval between doses is exceeded, administer *Advantage Multi for Dogs* immediately and resume the monthly dosing schedule. When replacing another heartworm preventative product in a heartworm prevention program, the first treatment with *Advantage Multi for Dogs* should be given within one month of the last dose of the former medication.

Treatment of Circulating Microfilaria: For the treatment of circulating *D. immitis* microfilaria in heartworm-positive dogs, *Advantage Multi for Dogs* should be administered at one-month intervals. Treatment with an approved adulticide therapy is recommended because *Advantage Multi for Dogs* is not effective for the treatment of adult *D. immitis*.

(See PRECAUTIONS.)

Flea Treatment: For the treatment of flea infestations, *Advantage Multi for Dogs* should be administered at one-month intervals. If the dog is already infested with fleas when the first dose of *Advantage Multi for Dogs* is administered, adult fleas on the dog will be killed. However, reinfestation from the emergence of preexisting pupae in the environment may continue to occur for six weeks or longer after treatment is initiated. Dogs treated with imidacloprid, including those with pre-existing flea allergy dermatitis have shown clinical improvement as a direct result of elimination of fleas from the dog.

Treatment and Control of Intestinal Nematode Infections: For the treatment and control of intestinal hookworm infections caused by *Ancylostoma caninum* and *Uncinaria stenocephala* (adults, immature adults and fourth stage larvae) and roundworm infections caused by *Toxocara canis* (adults and fourth stage larvae), and *Toxascaris leonina* (adults), and whipworm infections caused by *Trichuris vulpis* (adults), *Advantage Multi for Dogs* should be administered once as a single topical dose.

Treatment and Control of Sarcoptic Mange: For the treatment and control of sarcoptic mange caused by *Sarcoptes scabiei* var. *canis*, *Advantage Multi for Dogs* should be administered as a single topical dose. A second monthly dose may be administered if necessary.

ANIMAL SAFETY:

Heartworm-Negative Dogs

Field Study: In a controlled, double-masked, field safety study, *Advantage Multi for Dogs* was administered to 128 dogs of various breeds, 3 months to 15 years of age, weighing 4 to 157 pounds. *Advantage Multi for Dogs* was used safely in dogs concomitantly receiving ACE inhibitors, anticonvulsants, antihistamines, antimicrobials, chondroprotectants, corticosteroids, immunotherapeutics, MAO inhibitors, NSAIDs, ophthalmic medications, sympathomimetics, synthetic estrogens, thyroid hormones, and urinary acidifiers. Owners reported the following signs in their dogs after application of *Advantage Multi for Dogs*: pruritus, flaky/ greasy residue at the treatment site, medicinal odor, lethargy, inappetence, and hyperactivity.

(See ADVERSE REACTIONS.)

Safety Study in Puppies: *Advantage Multi for Dogs* was applied topically at 1, 3 and 5X the recommended dose to 7-week-old Beagle puppies once every 2 weeks for 6 treatments on days 0, 14, 28, 42, 56, and 70. Loose stools and diarrhea were observed in all groups, including the controls, throughout the study. Vomiting was seen in one puppy from the 1X treatment group (day 57), in two puppies from the 3X treatment group (days 1 and 79), and in one puppy from the 5X treatment group (day 1). Two puppies each in the 1X, 3X, and 5X groups had decreased appetites within 24 hours post-dosing. One puppy in the 1X treatment group had pruritus for one hour following the fifth treatment. A puppy from the 5X treatment group displayed rapid, difficult breathing from 4 to 8 hours following the second treatment.

Dermal Dose Tolerance Study: *Advantage Multi for Dogs* was administered topically to 8-month-old Beagle dogs at 10X the recommended dose once. One dog showed signs of treatment site irritation after application. Two dogs vomited, one at 6 hours and one at 6 days post-treatment. Increased RBC, hemoglobin, activated partial thromboplastin, and direct bilirubin were observed in the treated group. Dogs in the treated group did not gain as much weight as the control group.

Oral Safety Study in Beagles: *Advantage Multi for Dogs* was administered once orally at the recommended topical dose to 12 dogs. Six dogs vomited within 1 hour of receiving the test article, 2 of these dogs vomited again at 2 hours, and 1 dog vomited again up to 18 hours post-dosing. One dog exhibited shaking (nervousness) 1 hour post-dosing. Another dog exhibited abnormal neurological signs (circling, ataxia, generalized muscle tremors, and dilated pupils with a slow pupillary light response) starting at 4 hours post-dosing through 18 hours postdosing. Without treatment, this dog was neurologically normal at 24 hours and had a normal appetite by 48 hours post-dosing.

(See CONTRAINDICATIONS.)

Dermal Safety Study in Ivermectin-Sensitive Collies: *Advantage Multi for Dogs* was administered topically at 3 and 5X the recommended dose every 28 days for 3 treatments to Collies which had been prescreened for avermectin sensitivity. No clinical abnormalities were observed.

Oral Safety Study in Ivermectin-Sensitive Collies: *Advantage Multi for Dogs* was administered orally to 5 pre-screened ivermectin-sensitive Collies. The Collies were asymptomatic after ingesting 10 % of the minimum labeled dose. At 40 % of the minimum recommended topical dose, 4 of the dogs experienced neurological signs indicative of avermectin toxicity including depression, ataxia, mydriasis, salivation, muscle fasciculation, and coma, and were euthanized.

(See CONTRAINDICATIONS.)

Heartworm-Positive Dogs

Laboratory Safety Study in Heartworm-Positive Dogs: *Advantage Multi for Dogs* was administered topically at 1 and 5X the recommended dose every 14 days for 3 treatments to dogs with adult heartworm infections and circulating microfilaria. At 5X, one dog was observed vomiting three hours after the second treatment. Hypersensitivity reactions were not seen in the 5X treatment group. Microfilaria counts decreased with treatment.

STORAGE INFORMATION:

Store at temperatures between 4 °C (39 °F) and 25 °C (77 °F), avoiding excess heat or cold.

HOW SUPPLIED:

Applications Per Package

6 x 0.4 mL tubes

6 x 1.0 mL tubes

6 x 2.5 mL tubes

6 x 4.0 mL tubes

6 x 5.0 mL tubes

LV 2103

March, 2021

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