

THE

Broadest

Parasite Protection

OF ITS KIND* IN A CHEWABLE TABLET, COVERING 6 TYPES OF PARASITES.



 Based on label comparison of the number of parasite types covered in an isoxazoline endectocide



(lotilaner, moxidectin, praziquantel, and pyrantel chewable tablets)



6 in 1 Parasite Protection

Help Protect Your Patients from More* Types of Parasites

Credelio Quattro is the broadest* parasite protection available in an isoxazoline endectocide. Unlike other endectocides, Credelio Quattro protects against six types of parasites in one monthly flavored chewable tablet.







Ticks









Roundworms

Hookworms[†]

Tapeworms

^{*} Based on label comparison of the number of parasite types covered in an isoxazoline endectocide
† Uncinaria stenocephala





Why choose Credelio Quattro™?



The first and only canine oral isoxazoline endectocide that covers tapeworms.



Contains lotilaner that kills ticks† faster than[§] sarolaner in Simparica Trio[®] & afoxolaner in NexGard[®].1



100% effective at preventing heartworm disease from the first monthly dose in laboratory studies.



Contains the same established dose of lotilaner found in Credelio® (lotilaner).

§ Based on time to statistical significance vs control in a head to head study. The study compared Credelio® (lotilaner)-not Credelio Quattro™, which contains lotilaner as well as moxidectin, praziquantel, and pyrantel-to the active ingredients in Simparica Trio[®] (sarolaner, moxidectin, and pyrantel) and NexGard[®] (afoxolaner)



Protection Against Ticks and Fleas

Credelio Quattro contains extra-purified lotilaner. The inactive enantiomer is removed decreasing the potential for additional side effects.²

Tried & True Killing Power of Lotilaner

Credelio Quattro contains the same established dose of lotilaner found in Credelio



In flea infested homes, just 3 monthly doses of lotilaner reduced flea populations by 99.5-100%.



In a study using Credelio, lotilaner was shown to inhibit the neuromuscular function of ticks[‡] in just 2 hours.³

When Protecting Patients, Faster Is Better



4 HOURS Starts killing fleas in just 4 hours



8 HOURS Kills 99% of fleas within just 8 hours of administration



12 HOURS Lotilaner kills 100% of fleas 12 hours after administration and remains effective for an entire month

Speed of Kill Against A. americanum¹

Time point at which each active ingredient achieved consistent superior efficacy versus untreated control group (P ≤ 0.05)

Day of study	Lotilaner (Credelio Quattro)	Sarolaner (Simparica Trio)	Afoxolaner (NexGard)
0	12 hrs	24 hrs	24 hrs
21	12 hrs	48 hrs	48 hrs
28	8 hrs	48 hrs	72 hrs

Longer Half-Life

Loilaner reaches peak absorption in only 2 hours and maintains high, sustained blood levels for the entire month.⁵



100% Heartworm Disease Protection From the 1st **Monthly Dose**



In two well-controlled laboratory studies, Credelio Quattro was 100% effective against Dirofilaria immitis infections from the first monthly dose.









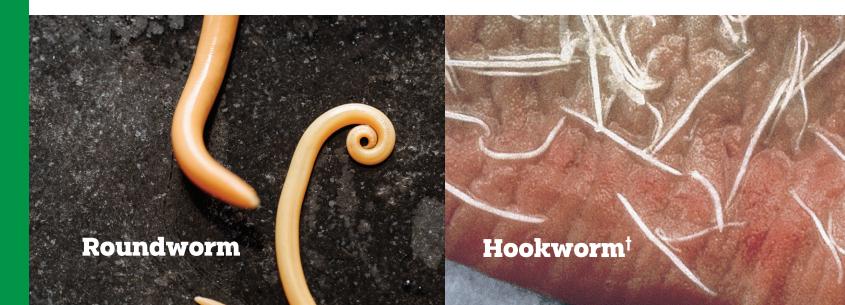


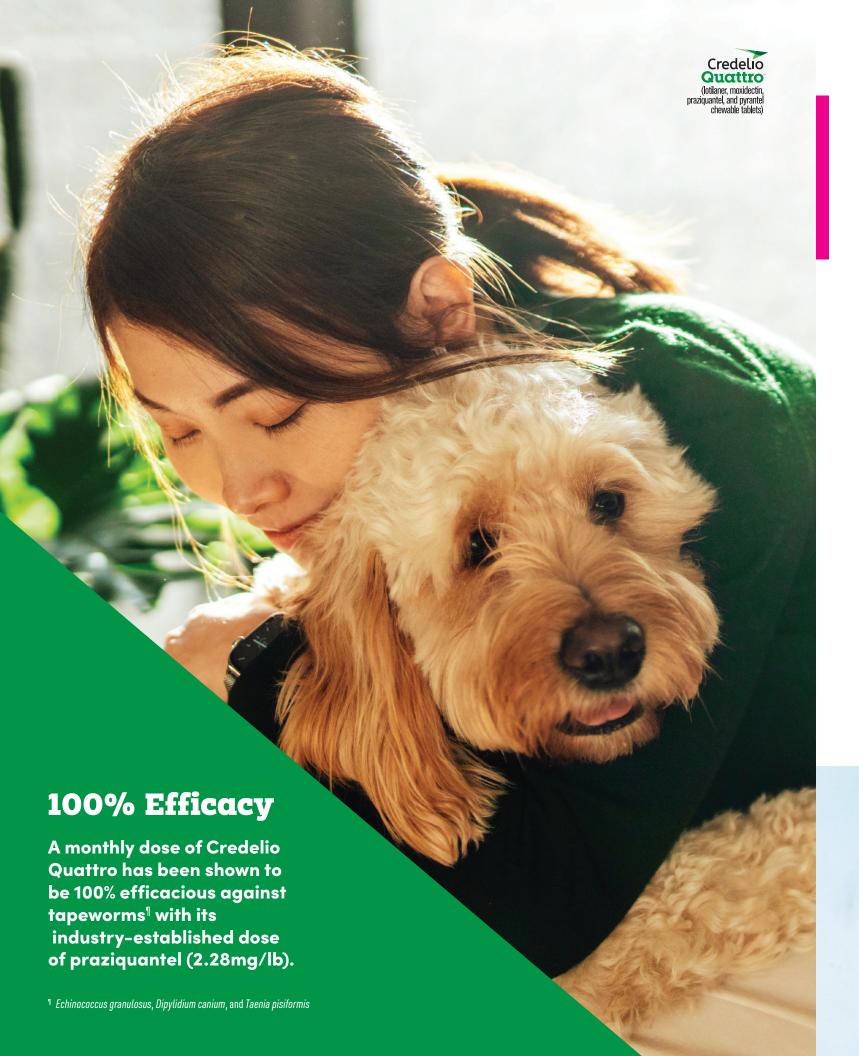
Demonstrated Efficacy Against Tapeworms, Roundworms, and Hookworms^t

Credelio Quattro protects against three types of intestinal worms that pose a zoonotic risk tapeworms, roundworms, and hookworms.

Just one Credelio Quattro chewable eliminates \geq 97% of roundworms. and adult hookworms.†

† Uncinaria stenocephala





The First Isoxazoline Endectocide to Kill Tapeworms

Easy to Pick Up, Hard to Diagnose

Tapeworm infections are common, but some can be easy to miss.



D. caninum can be diagnosed by their shedding of large, visible proglottids. Adults range from 15-70 cm.9



Echinococcus species are difficult to diagnose due to their small size and low number of body segments. *E. granulosus* grow to just 2-7mm.¹⁰

A Zoonotic Risk

Tapeworms don't just threaten dogs: they can be passed from dogs to humans. CAPC recommends monthly deworming of dogs with praziquantel in areas where *E. granulosus* tapeworms are endemic.¹⁰





Comes in a tasty beef-flavored chewable tablet formulation

Meat allergen-free and carefully crafted for sensitive dogs¹¹

Nearly 9 out of 10 dogs accepted Credelio Quattro





Choose Credelio Quattro for Your Patients

Credelio Quattro is easy to stock: it is available in the same dosing weight ranges as Credelio — but the lowest Credelio Quattro weight range is just 3.3 lbs. For dogs over 100 lbs., simply administer the appropriate combination of tablets.













Weight Range

3.3 - 6 lbs.

6.1 - 12 lbs.

12.1 - 25 lbs.

25.1 - 50 lbs.

50.1 - 100 lbs.

Size Comparison¹² Not actual size













Tablet Strength (mg)

56.25 mg

112.5 mg

225 mg

450 mg

900 mg



The Broadest Parasite Protection of Its Kind* in a Single Chewable Tablet **Covering 6 Types of Parasites**

	Credelio Quattro [™]	Simparica Trio [®]	NexGard [®] PLUS
Kills Ticks	✓	V	V
Contains lotilaner, that kills ticks [†] faster than [§] sarolaner in Simparica Trio and afoxolaner in NexGard ¹	~		
Uses the same established isoxazoline dose found in the comparable ectoparasiticide product	✓		~
Prevents Heartworm Disease Minimum doses to be administered after last seasonal mosquito exposure	at least 1 monthly dose	at least 1 monthly dose	at least 6 monthly doses
Treats and Controls Tapeworms	✓		
Treats and Controls Hookworms [†] and Roundworms	✓	V	V

Based on label comparisons

Satisfaction Guarantee

Backed by the Elanco Parasiticide **Satisfaction Guarantee**

- * Based on label comparison of the number of parasite types covered in an isoxazoline endectocide
 † Uncinaria stenocephala
 † Amblyomma americanum (lone star tick)

 § Based on time to statistical significance vs control in a head to head study. The study compared Credelio® (lotilaner)—not Credelio Quattro™, which contains lotilaner as well as moxidectin, praziquantel, and pyrantel—to the active ingredients in Simparica Trio® (sarolaner, moxidectin, and pyrantel) and NexGard® (afoxolaner).

Broaden Your Recommendation with

6 in 1 Parasite Protection

- ✓ The first and only canine oral isoxazoline endectocide that covers tapeworms.
- Contains lotilaner that kills ticks[†] faster than[§] sarolaner in Simparica Trio & afoxolaner in NexGard¹
- ✓ 100% effective at preventing heartworm disease from the first monthly dose in laboratory studies
- Contains the same established dose of lotilaner found in Credelio

Prescribe Credelio Quattro: the broadest* parasite protection available in an isoxazoline endectocide covering 6 types of parasites in one monthly flavored chewable tablet.



Learn more about Credelio Quattro by scanning the QR code or visiting **CredelioQuattroVet.com**

- * Based on label comparison of the number of parasite types covered in an isoxazoline class endectocide
- † Amblyomma americanum (lone star tick)
- § Based on time to statistical significance vs control in a head to head study. The study compared Credelio® (lotilaner)—not Credelio Quattro™, which contains lotilaner as well as moxidectin, praziquantel, and pyrantel—to the active ingredients in Simparica Trio® (sarolaner, moxidectin, and pyrantel) and NexGard® (afoxolaner).

INDICATIONS: Credelio Quattro is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis* and for the treatment and control of roundworm (immature adult and adult *Toxocara canis* and adult *Toxascaris leonina*), hookworm (adult *Uncinaria stenocephala*), and tapeworm (*Dipylidium caninum, Taenia pisiformis*, and *Echinococcus granulosus*) infections. Credelio Quattro kills adult fleas and is indicated for the treatment and prevention of flea infestations (*Ctenocephalides felis*) and the treatment and control of tick infestations [*Amblyomma americanum* (lone star tick), *Dermacentor variabilis* (American dog tick), *Ixodes scapularis* (black-legged tick), and *Rhipicephalus sanguineus* (brown dog tick)] for one month in dogs and puppies 8 weeks of age and older and weighing 3.3 pounds or greater.

IMPORTANT SAFETY INFORMATION: Lotilaner, an ingredient in Credelio Quattro, belongs to the isoxazoline class and has been associated with neurologic adverse reactions like tremors, ataxia, and seizures even in dogs without a history of seizures. Use with caution in dogs with a history of seizures or neurologic disorders. Dogs should be tested for existing heartworm infections before Credelio Quattro administration as it is not effective against adult *D. immitis*. The safe use in breeding, pregnant, or lactating dogs has not been evaluated. The most frequently reported adverse reactions in clinical trials were vomiting and diarrhea. For full prescribing information see Credelio Quattro package insert.

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REFERENCES

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- ⁵ Elanco Animal Health. Data on file.
- ⁶ Bravecto prescribing information.
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- ⁸ Simparica Trio prescribing information.
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- ¹⁰ Echinococcus spp. Companion Animal Parasite Council Guidelines. Updated Sept 13, 2022. Accessed Oct 10, 2024. https://capcvet.org/quidelines/echinococcus-spp/.
- ¹¹Elanco Animal Health. Data on file.
- 12 Elanco Animal Health. Data on file.



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available in an isoxazoli red chewable tablet.	ne



(lotilaner, moxidectin, praziquantel and pyrantel chewable tablets)

Flavored Chewable Tablets

For oral use in dogs only

CAUTION

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

Credelio Quattro (lotilaner, moxidectin, praziquantel, and pyrantel chewable tablets) are flavored chewable tablets available in five sizes for oral administration to dogs and puppies according to their weight Each chewable is formulated to provide minimum doses of 9 mg/lb (20 mg/kg) lotilaner, 0.009 mg/lb (0.02 mg/kg) moxidectin, 2.28 mg/lb (5 mg/kg) praziquantel, and 2.28 mg/lb (5 mg/kg) pyrantel (as pamoate salt).

Lotilaner is a member of the isoxazoline class of parasiticides and the chemical name is 5-[(5S)-4,5-dihydro-5-(3,4,5-trichlorophenyl)-5-(trifluoromethyl)-3-isoxazolyl]-3-methyl-N-[2-oxo-2-[(2,2,2-trifluoroethyl) amino]ethyl]- 2-thiophenecarboxamide.

Moxidectin is a semisynthetic macrocyclic lactone derived from the actinomycete Streptomycetes 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. Praziguantel is an isoguinolone anthelmintic with the chemical name 2-(cyclohexylcarbonyl)-1,2,3,6,7,-11b-hexahydro-4H-pyrazino [2,1- a]isoquinolin-4-one.

Pyrantel is a member of the tetrahydropyrimidine family of compounds. Its chemical name is (E)- 1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl) vinyl] pyrimidine 4, 4' methylenebis [3-hydroxy-2-naphthoate](1:1).

INDICATIONS

Credelio Quattro is indicated for the prevention of heartworm disease caused by Dirofilaria immitis and for the treatment and control of roundworm (immature adult and adult Toxocara canis and adult Toxascaris leonina). hookworm (adult Uncinaria stenocephala), and tapeworm (Dipylidium caninum, Taenia pisiformis, and Echinococcus granulosus) infections. Credelio Quattro kills adult fleas and is indicated for the treatment and prevention of flea infestations (Ctenocephalides felis) and the treatment and control of tick infestations [Amblyomma americanum (lone star tick), Dermacentor variabilis (American dog tick), Ixodes scapularis (black-legged tick), and Rhipicephalus sanguineus (brown dog tick)] for one month in dogs and puppies 8 weeks of age and older, and weighing 3.3 pounds or greater.

DOSAGE AND ADMINISTRATION

Credelio Quattro is given orally once a month, at the minimum dosage of 9 mg/lb (20 mg/kg) lotilaner, 0.009 mg/lb (0.02 mg/kg) moxidectin, 2.28 mg/lb (5 mg/kg) praziquantel, and 2.28 mg/lb (5 mg/kg) pyrantel (as pamoate salt). Credelio Quattro must be administered with food (see Clinical Pharmacology). Care should be taken to ensure that the dog consumes the complete dose and that part of the dose is not lost or refused. If vomiting occurs within an hour after administration, readminister a new dose of Credelio Quattro. If a dose is missed, give Credelio Quattro immediately and resume a monthly dosing schedule.

Dosing Schedule:

Body Weight (lbs)	Tablets to Administer	Lotilaner per Tablet (mg)	Moxidectin per Tablet (mg)	Praziquantel per Tablet (mg)	Pyrantel* per Tablet (mg)
3.3 – 6	1	56.25	0.056	14.25	14.25
6.1 – 12	1	112.5	0.113	28.5	28.5
12.1 – 25	1	225	0.225	57	57
25.1 – 50	1	450	0.45	114	114
50.1 – 100	1	900	0.9	228	228
> 100	Adn	ninister the ap	propriate com	bination of table	ets

^{*}As pamoate salt

PA104155X

Heartworm Prevention

Credelio Quattro should be administered year-round at monthly intervals or at least within 1 month of the animal's first seasonal exposure to mosquitoes and continuing until at least 1 month after the dog's last seasonal exposure. If a dose is missed, give Credelio Quattro immediately and resume monthly dosing. When replacing a monthly heartworm preventive product, Credelio Quattro should be given within 1 month of the last dose of the former medication.

Intestinal Nematode and Cestode Treatment and Control

Credelio Quattro should be administered as a single dose for the treatment of roundworm, hookworm, and tapeworm infections. Monthly use of Credelio Quattro will control any subsequent infections. Dogs may be exposed to and can become infected with gastrointestinal

Clients should be advised of appropriate measures to prevent reinfection of their dog with intestinal parasites.

worms throughout the year, regardless of season or climate.

Flea Treatment and Prevention

Treatment with Credelio Quattro should be administered year-round at monthly intervals or started at least 1 month before fleas become active. To minimize the likelihood of flea re-infestation, it is important to treat all dogs and cats within a household with a flea control product.

Tick Treatment and Control

Treatment with Credelio Quattro can begin at any time of the year. Credelio Quattro should be administered year-round at monthly intervals or started at least 1 month before ticks become active.

CONTRAINDICATIONS

There are no known contraindications for the use of Credelio Quattro.

WARNINGS

Not for use in humans. Keep this and all drugs out of reach of children. Wash hands after handling. If accidentally ingested, seek medical attention immediately.

Keep Credelio Quattro in a secure location out of reach of dogs, cats, and other animals to prevent accidental indestion or overdose.

Lotilaner, one of the ingredients in Credelio Quattro, is a member of the isoxazoline class. This class has been associated with neurologic adverse reactions including tremors, ataxia, and seizures. Seizures have been reported in dogs receiving isoxazoline class drugs, even in dogs without a history of seizures. Use with caution in dogs with a history of seizures or neurologic disorders.

Prior to administration of Credelio Quattro, dogs should be tested for existing heartworm infections. At the discretion of the veterinarian, infected dogs should be treated with an adulticide to remove adult heartworms. Credelio Quattro is not effective against adult D. immitis

The safe use of Credelio Quattro in breeding, pregnant, or lactating dogs has not been evaluated.

ADVERSE REACTIONS

In a field safety and effectiveness study, Credelio Quattro was administered to dogs for the prevention of heartworm disease.

The study included a total of 372 dogs treated once monthly for up to 11 treatments (191 treated with Credelio Quattro and 181 treated with an active control). Over the 330-day study period, all observations of potential adverse reactions were recorded.

Adverse reactions seen during the field study are summarized in the table below.

Dogs with Adverse Reactions in the Field Study

Clinical Sign	Credelio Quattro N=191 Number (Percentage)	Active Control N=181 Number (Percentage)
Diarrhea, with or without blood*	21 (11%)	15 (8.3%)
Vomiting	18 (9.4%)	8 (4.4%)
Lethargy	12 (6.3%)	1 (0.6%)
Anorexia	11 (5.8%)	5 (2.8%)
Dermatitis	10 (5.2%)	8 (4.4%)
Weight Loss	6 (3.1%)	3 (1.7%)
Pruritus (itching)	3 (1.6%)	1 (0.6%)
Alopecia (hair loss)	2 (1.0%)	4 (2.2%)
Seizure	1 (0.5%)	4 (2.2%)
Ataxia	1 (0.5%)	1 (0.6%)
Nystagmus	1 (0.5%)	0 (0.0%)
Anisocoria	1 (0.5%)	1 (0.6%)

*Four dogs administered Credelio Quattro and five dogs administered the active control had bloody diarrhea.

One geriatric dog receiving Credelio Quattro experienced two episodes of vomiting, ataxia, and nystagmus, 11 days apart, with the first episode occurring two days after the eighth dose. The dog recovered within 24 hours after the first episode and 1 hour after the second episode and completed the study. One dog receiving Credelio Quattro was observed by the investigator to have anisocoria during scheduled physical examinations one month after the ninth dose and one month after the eleventh dose.

In a U.S. field study, 165 dogs received a combination of lotilaner, moxidectin, and praziguantel, three of the active ingredients at the same doses as in Credelio Quattro, monthly for up to 11 months. Two dogs with no history of seizures experienced seizures during the study. One of the dogs developed cluster seizures and was removed from the study. Ataxia was also observed in one other dog three days after the first dose.

In a U.S. field study, one dog administered lotilaner alone, a component of Credelio Quattro, was observed with intermittent head tremors within 1.5 hours of administration of vaccines, an ear cleaning performed by the owner, and its first dose of lotilaner.

The head tremors resolved within 24 hours without treatment. The owner elected to withdraw the dog from the study.

In an Australian field study, one dog with a history of seizures experienced seizure activity (tremors and glazed eyes) six days after receiving lotilaner alone. The dog recovered without treatment and completed the study. In a U.S. field study, two dogs with a history of seizures received lotilaner alone and experienced no seizures throughout the study.

CONTACT INFORMATION

For a copy of the Safety Data Sheet (SDS) or to report suspected adverse drug events, contact Elanco US Inc. at 1-888-545-5973.

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

INFORMATION FOR ANIMAL OWNER

Echinococcus granulosus is a tapeworm found in wild canids and domestic dogs. E. granulosus can infect humans and cause serious disease (hydatid disease). Owners of dogs living in areas where E. granulosus is endemic should be instructed on how to minimize their risk of exposure to this parasite, as well as their dog's risk of exposure. Although Credelio Quattro was 100% effective in laboratory studies in dogs against E. granulosus, no studies have been conducted to show that the use of this product will decrease the incidence of hydatid disease in humans.

CLINICAL PHARMACOLOGY

Mechanism of Action

Credelio Quattro contains four active pharmaceutical ingredients, lotilaner, moxidectin, praziquantel, and pyrantel (as pamoate salt)

Lotilaner is an ectoparasiticide belonging to the isoxazoline group. Lotilaner inhibits insect and acarine gamma-aminobutyric acid (GABA)-gated chloride channels. This inhibition blocks the transfer of chloride ions across cell membranes, which results in uncontrolled neuromuscular activity leading to death of insects and acarines. The selective toxicity of lotilaner between insects and acarines and mammals may be inferred by the differential sensitivity of the insects and acarines' GABA receptors versus mammalian GABA receptors.

Moxidectin is an endectocide in the macrocyclic lactone class. Moxidectin acts by interfering with the chloride channel-mediated neurotransmission in the parasite. This results in paralysis and death of the parasite.

Praziquantel's mode of action is not precisely known, but treated tapeworms undergo muscular paralysis accompanied by a rapid influx of calcium ions and the disruption of the tegument.

Pyrantel is a nematocide belonging to the tetrahydropyrimidine class. Pyrantel acts as a depolarizing, neuromuscular-blocking agent in susceptible parasites, causing paralysis and death or expulsion of the parasite.

Pharmacokinetics

Due to reduced drug bioavailability of lotilaner in the fasted state, Credelio Quattro must be administered with a meal or within 30 minutes after feeding.

Following a single oral administration of Credelio Quattro at the minimum labeled dose in the fed state or a single intravenous administration of 5 mg lotilaner, 0.005 mg moxidectin, 1.25 mg praziquantel, and 1.25 mg pyrantel per kg body weight to Beagle dogs (1.5 to 2.5 years old), the mean oral bioavailability for lotilaner, praziquantel, and pyrantel was 93%, 41%, and 31%, respectively. Bioavailability for moxidectin is not reported due to insufficient data to adequately describe the elimination phase following intravenous administration. For Credelio Quattro, the area under the curve from time of dosing to the time of the last measurable concentration (AUC_{last}) was 5970, 1.75, 1.54, and 0.857 mg*h/L for lotilaner, moxidectin, praziquantel, and pyrantel, respectively. Peak concentrations (C_{max}) of 9070, 15.3, 390, and 122 ng/mL were reached (T_{max}) 10, 4.5, 0.75, and 2.5 h after dosing for lotilaner, moxidectin, praziquantel, and pyrantel, respectively. Mean plasma elimination half-lives were 806, 634, 3.64, and 4.87 h for lotilaner, moxidectin, praziquantel, and pyrantel, respectively.

Following nine oral administrations of Credelio Quattro at 1X, 3X, and 5X the maximum labeled dose of 40 mg/kg lotilaner, 0.04 mg/kg moxidectin, 10 mg/kg praziquantel, and 10 mg/kg pyrantel, every 28 days in 8-week-old Beagle dogs, moxidectin and lotilaner area under the curve from time of dosing to the time of the last measurable concentration (AUC_{lost}) increased approximately in a less than proportional manner, whereas praziquantel AUC_{last} increased approximately in a more than proportional manner from 1X to 5X after most study doses. Pyrantel AUC_{last} increased approximately in a proportional manner from 1X to 5X observed after first, sixth, and last doses. Within the 1X group, accumulation was observed between Days 0 and 224 with geometric mean accumulation ratios for AUC_{last} of 6.2 and 7.9 for lotilaner and moxidectin, respectively. Concentrations of praziquantel and pyrantel prior to each dose were below the limit of quantification.

EFFECTIVENESS Heartworm Prevention

In two well-controlled laboratory studies, a single oral dose of Credelio Quattro

was 100% effective in preventing the development of adult *D. immitis* in dogs inoculated with infective larvae 30 days before administration.

In a well-controlled U.S. field study consisting of 156 dogs administered Credelio Quattro and 149 administered an active control for 11 consecutive months, no dogs treated with Credelio Quattro tested positive for heartworm disease. All dogs treated with Credelio Quattro were negative for D. immitis antigen and blood microfilariae at study completion on Day 330.

Intestinal Nematode and Cestode Treatment and Control

In well-controlled laboratory studies, a single dose of Credelio Quattro was ≥ 97.0% effective against immature adult and adult *Toxocara canis*, adult Toxascaris leonina, and adult Uncinaria stenocephala infections.

In well-controlled laboratory studies, a single dose of Credelio Quattro was 100% effective against Echinococcus granulosus.

In separate well-controlled laboratory studies, praziquantel alone was 100% effective against Echinococcus granulosus, Dipylidium caninum, and Taenia pisiformis.

Flea Treatment and Prevention

In a well-controlled laboratory study, Credelio Quattro was 100% effective against adult fleas 24 hours after administration or infestation for 36 days. In a separate laboratory study, lotilaner alone began to kill fleas 4 hours after administration or infestation, with greater than 99% of fleas killed within 8 hours after administration or infestation for 35 days.

In a well-controlled U.S. field study conducted in households with existing flea infestations of varying severity, flea reductions of 99.5% to 100% were observed over the course of three monthly treatments with lotilaner alone. Dogs with signs of flea allergy dermatitis showed improvement in erythema, papules, scaling, alopecia, dermatitis/pyodermatitis, and pruritus as a direct result of eliminating fleas.

Tick Treatment and Control

In well-controlled laboratory studies, Credelio Quattro was ≥ 97.1% effective against Rhipicephalus sanguineus ticks 48 hours after administration or infestation for 32 days. In well-controlled laboratory studies, lotilaner alone was > 97% effective against Amblyomma americanum, Dermacentor variabilis, Ixodes scapularis, and Rhipicephalus sanguineus ticks 48 hours after administration or infestation for 30 days. In a well-controlled European laboratory study, lotilaner alone started killing Ixodes ricinus ticks within 4 hours after administration.

Palatability: In the U.S. field study, which included 552 doses administered to 191 dogs, dogs voluntarily consumed 59.8% of Credelio Quattro doses from an empty bowl, on the floor, or when offered by hand, and an additional 28.4% of doses when offered with food. The administration of 11.8% of doses required placement of the chewable tablet in the back of the dog's mouth. All doses were administered within 30 minutes of a meal.

TARGET ANIMAL SAFETY Margin of Safety

Credelio Quattro was administered orally at 0X, 1X, 3X, and 5X the maximum labeled doses at 28-day intervals for nine treatments to 32 healthy, 8-week-old Beagle puppies. Dogs in the control group received placebo. Credelio Quattro-related clinical chemistry findings included increased bile acids in two of the 3X dogs. Minimal mononuclear cell infiltration of the liver was noted microscopically in five control dogs, two 1X dogs, three 3X dogs, and five 5X dogs. One control dog, one 1X dog, two 3X dogs, and none of the 5X dogs also had minimal extramedullary hematopoiesis. Credelio Quattro-related clinical observations included a dose-dependent increase in discolored feces, diarrhea, and vomiting. All dogs recovered without treatment. Hypersalivation associated with vomiting on the day of dosing occurred in two of the 5X dogs.

Avermectin Sensitive Collie Safety

Credelio Quattro was administered orally at 0X, 1X, 2X, and 5X the maximum labeled dose at 28-day intervals for three treatments to 32 healthy, avermectin sensitive Collie dogs. Dogs in the control group received a vehicle control. One dog in each of the control, 2X, and 5X groups had transient mild depression. Salivation and vomiting was observed in a dose-dependent manner in the 1X, 2X, and 5X groups. Diarrhea, with or without blood, was observed in all groups, including controls, and resolved without treatment.

Heartworm Positive Safety

Credelio Quattro was administered orally at 0X, 1X, and 3X the maximum labeled dose at 28-day intervals for three treatments to 24 healthy, Beagle dogs with patent adult heartworm infections and circulating microfilariae. Dogs in the control group received placebo. Diarrhea and/or vomiting occurred in all dogs in the 3X group at various times up to 12 hours post-dose. Diarrhea occurred in fewer dogs in the 1X and control groups. All dogs experiencing post-dose gastrointestinal issues recovered without treatment Hypersensitivity reactions (e.g., anaphylaxis, shock, collapse, respiratory distress, or depression) were not observed in any dog.

In a well-controlled field study, Credelio Quattro was used concurrently with other medications such as vaccines, antimicrobials, anthelmintics, antiemetics, steroidal and nonsteroidal anti-inflammatory drugs (NSAIDs), anesthetics, and analgesics. No adverse reactions were associated with the concurrent use of Credelio Quattro and other medications.

HOW SUPPLIED

Credelio Quattro (lotilaner, moxidectin, praziquantel, and pyrantel chewable tablets) is available in five strengths of flavored chewable tablets formulated according to the weight of the dog (see Dosage and Administration). Each chewable tablet size is available in packages of 1, 6, or 12 tablets

STORAGE INFORMATION

Store at 15-25°C (59-77°F). Excursions permitted between 5 and 40°C (41 and 104°F).

Approved by FDA under NADA # 141-581

Manufactured for: Elanco US Inc, Greenfield, IN 46140

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