



Credelio® (lotilaner) Kills Ticks* Faster than NexGard® (afoxolaner) and Simparica Trio® (sarolaner, moxidectin, pyrantel)¹

Head-to-head study finds Credelio has the fastest initial speed of tick* kill and continues to grow that advantage throughout the dosing interval¹



SPEED OF KILL MATTERS

Ticks transmit pathogens to their hosts during the feeding process, with longer feeding periods allowing more pathogens to be passed.^{1,2}

Faster kill means:

- Less risk of pathogen transmission
- Greater pet owner satisfaction



LONE STAR TICK IS NO MATCH FOR CREDELIO

Credelio is more effective than Simparica Trio and NexGard in quickly killing *A. americanum* to control an existing infestation, and maintains that advantage throughout the dosing interval.¹



STUDY DESIGN

- Approximately fifty *A. americanum* ticks were applied to the dogs two days prior to treatment and allowed to attach and feed. Reinfestations occurred on days 21 and 28
- Four groups of eight dogs each were treated according to the label with an isoxazoline-containing product (Credelio, Simparica Trio, or NexGard) or received no treatment at all (control group)
- Periodic tick counts were conducted at different time intervals on days 0 (treatment day), 21 and 28 to determine isoxazoline efficacy throughout treatment period

REFERENCES

¹Reif KE, Kollasch TM, Neilson JC, et al. Comparative speed of kill provided by lotilaner (Credelio™), sarolaner (Simparica Trio™), and afoxolaner (NexGard™) to control *Amblyomma americanum* infestations on dogs. *Parasit Vectors*. 2024;17(1):313.

²Shaw S, Day M, Birtles R, et al. Tick-borne infectious diseases of dogs. *TRENDS in Parasitology*. 2001;17.

**Amblyomma americanum* (lone star tick)

INDICATIONS

Credelio 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) *Rhipicephalus sanguineus* (brown dog tick)] and *Haemaphysalis longicornis* (longhorned tick)] for one month in dogs and puppies 8 weeks of age and older and weighing 4.4 pounds or greater. Credelio is indicated for the prevention of *Borrelia burgdorferi* infections (also known as Lyme disease) as a direct result of killing *Ixodes scapularis* vector ticks.

IMPORTANT SAFETY INFORMATION

Lotilaner 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 this class of drugs, even in dogs without a history of seizures. Use with caution in dogs with a history of seizures or neurologic disorders. The safe use of Credelio in breeding, pregnant or lactating dogs has not been evaluated. The most frequently reported adverse reactions are weight loss, elevated blood urea nitrogen, polyuria, and diarrhea. For full prescribing information see Credelio package insert.

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STUDY RESULTS¹

Speed of Kill Against *A. americanum* (lone star tick)

| DAY OF STUDY | TIME POINT AT WHICH PRODUCT ACHIEVED CONTINUOUS SUPERIOR EFFICACY VERSUS UNTREATED CONTROL GROUP (P ≤ 0.05) | | |
|--------------|---|---|-----------------------|
| | Credelio® (lotilaner) | SIMPARICA TRIO® (sarolaner, moxidectin, pyrantel) | NEXGARD® (afoxolaner) |
| 0 | 12 HRS | 24 HRS | 24 HRS |
| 21 | 12 HRS | 48 HRS | 48 HRS |
| 28 | 8 HRS | 48 HRS | 72 HRS |



Credelio kills ticks* faster¹ than Simparica Trio and NexGard



Only Credelio significantly (P ≤ 0.05) reduced ticks* at all 12- and 24-hour evaluation time points



Only Credelio provides a rapid speed of kill throughout the entire month-long treatment period



Credelio's rapid and consistent speed of tick* kill may contribute to reduced risk of tick-borne pathogen transmission and increased pet owner product satisfaction.

