

## Veterinary Physician's Prescribing Information

### NEXGARD VETERINARY

#### 1. TRADE NAME OF MEDICINAL PRODUCT

NEXGARD 11 MG VETERINARY – chewable tablets for dogs 2–4 kg

NEXGARD 28 MG VETERINARY – chewable tablets for dogs >4–10 kg

NEXGARD 68 MG VETERINARY – chewable tablets for dogs >10–25 kg

NEXGARD 136 MG VETERINARY – chewable tablets for dogs >25–50 kg

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each chewable tablet contains:

##### Active substances:

NEXGARD VETERINARY	Afoxolaner (mg)
chewable tablets for dogs 2–4 kg	11.3 mg
chewable tablets for dogs >4–10 kg	28.3 mg
chewable tablets for dogs >10–25 kg	68 mg
chewable tablets for dogs >25–50 kg	136 mg

For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

Chewable tablets

Mottled red to reddish brown, circular shaped (tablets for dogs 2–4 kg) or rectangular shaped (tablets for dogs >4–10 kg, tablets for dogs >10–25 kg and tablets for dogs >25–50 kg).

#### 4. CLINICAL PARTICULARS

**4.1 Target species:** Dogs.

##### 4.2 Indications for use, specifying the target species

- Treatment of flea infestation in dogs (*Ctenocephalides felis* and *C. canis*) for at least 5 weeks. The product can be used as part of a treatment strategy for the control of flea allergy dermatitis (FAD).
- Treatment of tick infestation in dogs (*Dermacentor reticulatus*, *Ixodes ricinus*, *Rhipicephalus sanguineus*). One treatment kills ticks for up to one month.
- Fleas and ticks must attach to the host and commence feeding in order to be exposed to the active substance.
- Treatment of demodicosis (caused by *Demodex canis*).
- Treatment of sarcoptic mange (caused by *Sarcoptes scabiei* var. *canis*).

**4.3 Contraindications:** Do not use in cases of hypersensitivity to the active substance or to any of the excipients.

**4.4 Special warnings for each target species:** Parasites need to start feeding on the host to become exposed to afoxolaner; therefore the risk of the transmission of parasite borne diseases cannot be excluded.

##### 4.5 Special precautions for use:

Special precautions for use in animals: In the absence of available data, treatment of puppies less than 8 weeks of age and/or dogs less than 2 kg bodyweight should be based on a benefit-risk assessment by the responsible veterinarian.

Special precautions to be taken by the person administering the veterinary medicinal product to animals: To prevent children from getting access to the veterinary medicinal product, remove only

one chewable tablet at a time from the blister. Return the blister with the remaining chewable tablets into the carton.

Wash hands after handling the product.

**4.6 Adverse reactions (frequency and seriousness):** Mild gastrointestinal effects (vomiting, diarrhoea), pruritus, lethargy, anorexia, and neurological signs (convulsions, ataxia and muscle tremors) have been reported very rarely. Most reported adverse reactions were self-limiting and of short duration.

The frequency of adverse reactions is defined using the following convention:

- Very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- Common (more than 1 but less than 10 animals in 100 animals treated)
- Uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- Rare (more than 1 but less than 10 animals in 10,000 animals treated)
- Very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

Reporting of suspected adverse reactions:

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit / risk balance of the medicinal product.

Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form:

[https://sideeffects.health.gov.il /](https://sideeffects.health.gov.il/)

**4.7 Use during pregnancy, lactation or lay:** Laboratory studies in rats and rabbits have not produced any evidence of teratogenic effects, or any adverse effect on the reproductive capacity of males and females.

The safety of the veterinary medicinal product has not been established during pregnancy and lactation or in breeding dogs. Use only according to the benefit-risk assessment by the responsible veterinarian.

**4.8 Interaction with other medicinal products and other forms of interaction:** None known.

**4.9 Amounts to be administered and administration route:** For oral use.

Dosage: The product should be administered at a dose of 2.7–7 mg/kg bodyweight in accordance with the following table:

Bodyweight (kg) of dog	Strength and number of chewable tablets to be administered			
	NEXGARD 11 MG VETERINARY	NEXGARD 28 MG VETERINARY	NEXGARD 68 MG VETERINARY	NEXGARD 136 MG VETERINARY
2-4	1			
>4-10		1		
>10-25			1	
>25-50				1

For dogs above 50 kg bodyweight, use an appropriate combination of chewable tablets of different / same strengths. The tablets should not be divided.

Method of administration: The tablets are chewable and palatable to most dogs. If the dog does not accept the tablets directly they may be administered with food.

Treatment schedule:

- *Treatment of flea and tick infestations:* Monthly intervals throughout the flea and/or tick seasons, based on local epidemiological situations.

- *Treatment of demodicosis (caused by Demodex canis)*: Monthly administration of the product until two negative skin scrapings are obtained one month apart. Severe cases may require prolonged monthly treatments. As demodicosis is a multi-factorial disease, where possible, it is advisable to also treat any underlying disease appropriately.
- *Treatment of sarcoptic mange (caused by Sarcoptes scabiei var. canis)*: Monthly administration of the product for two consecutive months. Further monthly administration of the product may be required based on clinical assessment and skin scrapings.

**4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary:** No adverse reactions were observed in healthy Beagle puppies over 8 weeks of age when treated with 5 times the maximum dose repeated 6 times at intervals of two to four weeks.

**4.11 Withdrawal period(s):** Not applicable.

## 5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Ectoparasiticides for systemic use.

ATC vet code: QP53BE01.

**5.1 Pharmacodynamic properties:** Afoxolaner is an insecticide and acaricide belonging to the isoxazoline family. Afoxolaner acts at ligand-gated chloride channels, in particular those gated by the neurotransmitter gamma-aminobutyric acid (GABA), thereby blocking pre- and post-synaptic transfer of chloride ions across cell membranes. This results in uncontrolled activity of the central nervous system and death of insects or acarines. The selective toxicity of afoxolaner between insect / acarines and mammals may be inferred by the differential sensitivity of the insect / acarines' GABA receptors versus mammalian receptors.

Afoxolaner is active against adult fleas as well as several tick species such as *Dermacentor reticulatus* and *D. variabilis*, *Ixodes ricinus* and *I. scapularis*, *Rhipicephalus sanguineus*, *Amblyomma americanum* and *Haemaphysalis longicornis*.

NexGard kills fleas within 8 hours and ticks within 48h.

The product kills fleas before egg production and therefore prevents household contamination.

**5.2 Pharmacokinetic particulars:** After oral administration in dogs, afoxolaner was shown to have high systemic absorption following administration. The absolute bioavailability was 74%. The mean maximum concentration (C<sub>max</sub>) was 1,655 ± 332 ng/ml in plasma at 2–4 hours (T<sub>max</sub>) after a 2.5 mg/kg afoxolaner dose.

Afoxolaner distributes into tissues with a volume of distribution of 2.6 ± 0.6 l/kg and a systemic clearance value of 5.0 ± 1.2 ml/hr/kg. The terminal plasma half-life is approximately 2 weeks in most dogs; however, half-life of afoxolaner can differ between dogs (e.g. in one study, t<sub>1/2</sub> in Collies at 25 mg/kg bodyweight was up to 47.7 days) with no effect on safety. *In-vitro* experiments demonstrated that P-glycoprotein efflux does not occur, confirming that afoxolaner is not a substrate for the P-glycoprotein transporters.

Afoxolaner in the dog is metabolised to more hydrophilic compounds and then eliminated. The metabolites and parent compound are eliminated from the body via urinary and biliary excretion with the majority eliminated in the bile. No evidence of enterohepatic recycling has been observed.

## 6. PHARMACEUTICAL PARTICULARS

**6.1 List of excipients:** Maize Starch, Soy Protein Fines q.s., Beef Braised Type Flavor, Povidone K30, Macrogol 400, Macrogol 4000, Macrogol 15 Hydroxystearate, Glycerol, Triglycerides Medium-Chain (MCT).

**6.2 Major incompatibilities:** Not applicable.

**6.3 Shelf life:** The expiry date of the product is indicated on the blister and carton box. Do not use after the expiry date.

**6.4 Special precautions for storage:** Store below 30°C.

**6.5 Nature and composition of immediate packaging:** The veterinary medicinal product is individually packaged in thermoformed laminated PVC blisters with paper-backed aluminium (Aclar/PVC/Alu).

One carton contains one blister of 1, 3 or 6 chewable tablets or three blisters of 6 chewable tablets or fifteen blisters of 1 chewable tablet.

Not all pack sizes may be marketed.

**6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products:** Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

**7. Israeli Drug Registration Number:**

NEXGARD 11 MG VETERINARY: 158-33-34664-00

NEXGARD 28 MG VETERINARY: 158-34-34665-00

NEXGARD 68 MG VETERINARY: 158-35-34666-00

NEXGARD 136 MG VETERINARY: 158-36-34667-00

**8. Manufacturer:** Boehringer Ingelheim Vetmedica GmbH, Ingelheim am Rhein, Germany (manufactured by Boehringer Ingelheim Animal Health do Brasil Ltda., Paulinia, São Paulo, Brazil and Boehringer Ingelheim Animal Health France SCS, Toulouse, France).

**9. Israeli Marketing Authorization Holder:** Beit Erez Havat Milatin, VAT no. 511088106, P.O.B. 209, Mishmar Hashiva 5029700, Israel.

**10. APPROVED ON: 11/2021**

[Internal code: NXGRD-VET-DCTR-11/21 dated 29/11/2021]