

PACKAGE LEAFLET:

Endectrid 40 mg + 10 mg spot-on solution for small dogs

Endectrid 100 mg + 25 mg spot-on solution for medium dogs

Endectrid 250 mg + 62.5 mg spot-on solution for large dogs

Endectrid 400 mg + 100 mg spot-on solution for extra-large dogs

NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT

Marketing authorisation holder:

Bayer plc
400 South Oak Way
Green Park
Reading
RG2 6AD

Manufacturer responsible for batch release:

KVP Pharma + Veterinär Produkte GmbH
Projensdorfer Str. 324, 24106 Kiel, Germany

NAME OF THE VETERINARY MEDICINAL PRODUCT

Endectrid 40 mg + 10 mg spot-on solution for small dogs

Endectrid 100 mg + 25 mg spot-on solution for medium dogs

Endectrid 250 mg + 62.5 mg spot-on solution for large dogs

Endectrid 400 mg + 100 mg spot-on solution for extra-large dogs

Imidacloprid, Moxidectin

STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)

Each pipette contains:

Unit Dose	Active substances:		Excipients:	
	Imidacloprid	Moxidectin	Butylhydroxytoluene (E 321)	Benzyl alcohol
0.4 ml	40 mg	10 mg	0.4 mg	322.9 mg
1.0 ml	100 mg	25 mg	1.0 mg	807.3 mg
2.5 ml	250 mg	62.5 mg	2.5 mg	2018.3 mg
4.0 ml	400 mg	100 mg	4.0 mg	3229.2 mg

INDICATION(S)

For dogs suffering from, or at risk from, mixed parasitic infections:

- For the treatment and prevention of flea infestation (*Ctenocephalides felis*),
- the treatment of biting lice (*Trichodectes canis*),
- the treatment of ear mite infestation (*Otodectes cynotis*), sarcoptic mange (caused by *Sarcoptes scabiei* var. *canis*), demodicosis (caused by *Demodex canis*),
- the prevention of heartworm disease (L3 and L4 larvae of *Dirofilaria immitis*),
- the treatment of circulating microfilariae (*Dirofilaria immitis*),
- the treatment of cutaneous dirofilariasis (adult stages of *Dirofilaria repens*),
- the prevention of cutaneous dirofilariasis (L3 larvae of *Dirofilaria repens*),
- the reduction of circulating microfilariae (*Dirofilaria repens*),
- the prevention of angiostrongylosis (L4 larvae and immature adults of *Angiostrongylus vasorum*),
- the treatment of *Angiostrongylus vasorum* and *Crenosoma vulpis*,
- the prevention of spirocerosis (*Spirocerca lupi*),
- the treatment of *Eucoleus* (syn. *Capillaria*) *boehmi* (adults),
- the treatment of the eye worm *Thelazia callipaeda* (adults),
- the treatment of infections with gastrointestinal nematodes (L4 larvae, immature adults and adults of *Toxocara canis*, *Ancylostoma caninum* and *Uncinaria stenocephala*, adults of *Toxascaris leonina* and *Trichuris vulpis*).

The product can be used as part of a treatment strategy for flea allergy dermatitis (FAD).

CONTRAINDICATIONS

Do not use in puppies under 7 weeks of age.

Do not use in cases of known hypersensitivity to the active substances or to any of the excipients.

Do not use in dogs classified as Class 4 for heartworm disease as the safety of the product has not been evaluated in this animal group.

For cats, the corresponding "Endectrid for Cats" (0.4 or 0.8 ml) product, which contains 100 mg/ml imidacloprid and 10 mg/ml moxidectin, must be used.

For ferrets: Do not use Endectrid for dogs. Only "Endectrid for small cats and ferrets" (0.4 ml) must be used.

Do not use on canaries.

ADVERSE REACTIONS

Use of the product may result in transient pruritus in dogs. On rare occasions greasy hair, erythema and vomiting can occur. These signs disappear without further treatment. The product may, in rare cases, cause local hypersensitivity reactions. If the animal licks the application site after treatment, neurological signs (most of which are transient) such as ataxia, generalised tremors, ocular signs (dilated pupils, little pupillary reflex, nystagmus), abnormal respiration, salivation and vomiting may be observed in very rare cases.

The product tastes bitter. Salivation may occasionally occur if the animal licks the application site immediately after treatment. This is not a sign of intoxication and disappears within some minutes without treatment. Correct application will minimise licking of the application sites.

The product may in very rare cases cause at the application site a sensation resulting in transient behavioural changes such as lethargy, agitation, and inappetence.

A field study has shown that in heartworm positive dogs with microfilaraemia there is a risk of severe respiratory signs (coughing, tachypnea and dyspnea) that may require prompt veterinary treatment. In the study these reactions were common (seen in 2 of 106 treated dogs). Gastrointestinal signs (vomiting, diarrhoea, inappetence) and lethargy are also common adverse reactions following treatment in such dogs.

In case of accidental oral uptake, symptomatic treatment should be administered by a veterinary surgeon. There is no known specific antidote. The use of activated charcoal may be beneficial.

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, including isolated reports treated).

If you notice any side effects, even those not already listed in this package leaflet or you think that the medicine has not worked, please inform your veterinary surgeon.

TARGET SPECIES

Dogs

DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION

For external use only.

Apply topically to the skin between the shoulder blades.

Dosage schedule

The recommended minimum doses are 10 mg/kg bodyweight imidacloprid and 2.5 mg/kg bodyweight moxidectin, equivalent to 0.1 ml of the product per kg bodyweight.

The treatment schedule should be based on individual veterinary diagnosis and on the local epidemiological situation.

Weight of dog [kg]	Pipette size to be used	Volume [ml]	Imidacloprid [mg/kg bw]	Moxidectin [mg/kg bw]
≤ 4 kg	Endectrid for small dogs	0.4	minimum of 10	minimum of 2.5
> 4-10 kg	Endectrid for medium dogs	1.0	10-25	2.5-6.25
> 10-25 kg	Endectrid for large dogs	2.5	10-25	2.5-6.25
> 25-40 kg	Endectrid for extra-large dogs	4.0	10-16	2.5-4
> 40 kg	appropriate combination of pipettes			

Flea treatment and prevention (*Ctenocephalides felis*)

One treatment prevents further flea infestation for 4 weeks. Pre-existing pupae in the environment may continue to emerge for 6 weeks or longer after treatment is initiated depending upon climatic conditions. Therefore, it may be necessary to combine the treatment with this product with treatments aimed at breaking the flea life cycle in the surroundings. This can result in more rapid reductions in the household flea population. The product should be administered at monthly intervals when used as part of a treatment strategy for flea allergy dermatitis.

Treatment of biting lice (*Trichodectes canis*)

A single dose should be administered. A further veterinary examination 30 days after treatment is recommended as some animals may require a second treatment.

Treatment of ear mite infestation (*Otodectes cynotis*)

A single dose of the product should be administered. Loose debris should be gently removed from the external ear canal at each treatment. A further veterinary examination 30 days after treatment is recommended as some animals may require a second treatment. Do not apply directly to the ear canal.

Treatment of sarcoptic mange (caused by *Sarcoptes scabiei* var. *canis*)

A single dose should be administered twice 4 weeks apart.

Treatment of demodicosis (caused by *Demodex canis*)

The administration of a single dose every 4 weeks for 2 to 4 months is efficacious against *Demodex canis* and leads to a marked improvement of clinical signs particularly in mild to moderate cases. Especially severe cases may require more prolonged and more frequent treatment. To achieve the best possible response in these severe cases, at the discretion of the vet, the product can be applied once a week and for a prolonged time. In all cases it is essential that the treatment should be continued until skin scrapings are negative on at least 2 consecutive monthly occasions. Treatment should be stopped in dogs that show no improvement or do not respond in mite count after 2 months treatment. Alternative treatment should be administered. Seek the advice of your vet.

As demodicosis is a multi-factorial disease, where possible, it is advisable to also treat any underlying disease appropriately.

Prevention of heartworm disease (*D. immitis*) and cutaneous dirofilariasis (*D. repens*)

Dogs in areas endemic for heartworm, or those which have travelled to endemic areas, may be infected with adult heartworms. Therefore before treatment with this product, the advice provided in the section "SPECIAL WARNING(S)" should be considered.

For prevention of heartworm disease and cutaneous dirofilariasis, the product must be applied at regular monthly intervals during the time of the year when mosquitoes (the intermediate hosts which carry and transmit *D. immitis* and *D. repens* larvae) are present. The product may be administered throughout the year or at least 1 month before the first expected exposure to mosquitoes. The treatment should continue at regular monthly intervals until 1 month after the last exposure to mosquitoes. To establish a treatment routine, it is recommended that the same day or date be used each month. When replacing another heartworm preventative product in a heartworm prevention programme, the first treatment with this product must be given within 1 month of the last dose of the former medication. In non-endemic areas there should be no risk of dogs having heartworm. Therefore they can be treated without special precautions.

Treatment of microfilariae (*D. immitis*)

The product should be administered monthly for two consecutive months.

Treatment of cutaneous dirofilariasis (adult stages of *Dirofilaria repens*)

The product should be administered monthly for six consecutive months.

Reduction of microfilariae (*D. repens*)

The product should be administered monthly for four consecutive months.

Treatment and prevention of *Angiostrongylus vasorum*

A single dose should be administered. A further veterinary examination 30 days after treatment is recommended as some animals may require a second treatment.

In endemic areas regular monthly application will prevent angiostrongylosis and patent infection with *Angiostrongylus vasorum*.

Treatment of *Crenosoma vulpis*

A single dose should be administered.

Prevention of *Spirocerca lupi*

The product should be administered monthly.

Treatment of *Eucoleus* (syn. *Capillaria*) *boehmi* (adults)

The product should be administered monthly for two consecutive months. It is advisable to prevent auto-coprophagia between the two treatments in order to prevent possible reinfection.

Treatment of the eye worm *Thelazia callipaeda* (adults)

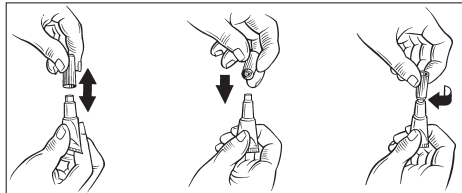
A single dose of the product should be administered.

Roundworm, hookworm and whipworm treatment
In areas endemic for heartworm, monthly treatment may significantly reduce the risk of re-infection caused by the respective roundworm, hookworms and whipworms. In areas non-endemic for heartworm, the product can be used as part of a seasonal prevention programme against fleas and gastrointestinal nematodes.

Studies have shown that monthly treatment of dogs will prevent infections caused by *Uncinaria stenocephala*.

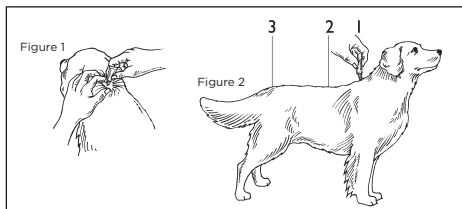
ADVICE ON CORRECT ADMINISTRATION

Remove one pipette from the package. Then hold the pipette in an upright position, and twist and pull off the cap. Reverse the cap and use it to twist and remove the seal from the pipette, as shown.



For dogs up to 25 kg:

With the dog in a standing position, part the coat between the shoulder blades until the skin is visible. Wherever possible apply to undamaged skin. Place the tip of the pipette on the skin and squeeze the pipette firmly several times to empty its contents directly onto the skin (Fig 1).



For dogs of more than 25 kg:

For easy application the dog should be standing. The entire contents of the pipette should be applied evenly as 3 or 4 spots along the top of the back, from between the shoulders to the base of the tail (Fig 2). At each spot part the coat until the skin is visible. Wherever possible apply to undamaged skin. Place the tip of the pipette on the skin and gently squeeze the pipette to expel a portion of its contents directly onto the skin (Fig 1). Do not apply an excessive amount of solution at any one spot, as that could cause some of the product to run down the animal's side.

WITHDRAWAL PERIOD

Not applicable.

SPECIAL STORAGE PRECAUTIONS

Keep out of the sight and reach of children.

This veterinary medicinal product does not require any special storage conditions.

Do not use this veterinary medicinal product after the expiry date stated on the label and carton. The expiry date refers to the last day of that month.

SPECIAL WARNING(S)

Special warnings for each target species:

Brief contact of the animal with water on one or two occasions between monthly treatments is unlikely to significantly reduce the efficacy of the product. However, frequent shampooing or immersion of the animal in water after treatment may reduce the efficacy of the product.

Parasite resistance to any particular class of anthelmintic may develop following frequent, repeated use of an anthelmintic of that class. Therefore, the use of this product should be based on the assessment of each individual case and on local epidemiological information about the current susceptibility of the target species in order to limit the possibility of a future selection for resistance.

The use of the product should be based on the confirmed diagnosis of mixed infection (or risk of infection, where prevention applies) at the same time (see also **Indications** and **Dosage** sections). Efficacy against adult *Dirofilaria repens* has not been tested under field conditions.

Special precautions for use in animals:

Treatment of animals weighing less than 1 kg should be based on a benefit-risk assessment.

There is limited experience on the use of the product in sick and debilitated animals, thus the product should only be used based on a benefit-risk assessment for these animals.

Care should be taken that the contents of the pipette do not come into contact with the eyes or mouth of the recipient and/or other animals. Do not allow recently treated animals to groom each other. When the product is applied in 3 to 4 separate spots, specific care should be taken to prevent the animal licking the application sites.

This product contains moxidectin (a macrocyclic lactone), therefore special care should be taken with Collies or Old English Sheepdogs and related breeds or crossbreeds, to correctly administer the product as described under the section "**ADVICE ON CORRECT ADMINISTRATION**"; in particular, oral uptake by the recipient and/or other animals in close contact should be prevented.

This product should not enter water courses as this may be dangerous for fish and other aquatic organisms: moxidectin is highly toxic to aquatic organisms. Dogs should not be allowed to swim in surface waters for 4 days after treatment.

The safety of the product has only been evaluated in dogs classified as either Class 1 or 2 for heartworm disease in laboratory studies and in a few Class 3 dogs in a field study. Therefore the use in dogs with obvious or severe symptoms of the disease should be based on a careful benefit-risk assessment by the treating vet.

Although experimental overdosage studies have shown that the product may be safely administered to dogs infected with adult heartworms, it has no therapeutic efficacy against adult *Dirofilaria immitis*. It is therefore recommended that all dogs 6 months of age or more, living in areas endemic for heartworm, should be tested for existing adult heartworm infection before being treated with the product. At the discretion of the veterinarian, infected dogs should be treated with an adulticide to remove adult heartworms. The safety of the product has not been evaluated when administered on the same day as an adulticide. Imdacloprid is toxic for birds, especially canaries.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Avoid contact with skin, eyes or mouth.

Do not eat, drink or smoke during application.

Wash hands thoroughly after use.

After application do not stroke or groom animals until the application site is dry.

In case of accidental spillage onto skin, wash off immediately with soap and water.

People with a known hypersensitivity to benzyl alcohol, imidacloprid or moxidectin should administer the product with caution. In very rare cases the product may cause skin sensitisation or transient skin reactions (for example numbness, irritation or burning/tingling sensation).

In very rare case the product may cause respiratory irritation in sensitive individuals.

If the product accidentally gets into eyes, they should be thoroughly flushed with water.

If skin or eye symptoms persist, or the product is accidentally swallowed, seek medical advice immediately and show the package leaflet or the label to the physician.

Other precautions:

The solvent in this product may stain or damage certain materials including leather, fabrics, plastics and finished surfaces. Allow the application site to dry before permitting contact with such materials.

Pregnancy and lactation:

The safety of the veterinary medicinal product has not been established during pregnancy and lactation. Laboratory studies with either imidacloprid or moxidectin in rats and rabbits have not produced any evidence of teratogenic, foetotoxic or maternotoxic effects. Use only accordingly to the benefit-risk assessment by the responsible vet.

Interaction with other medicinal products and other forms of interaction:

During treatment with this veterinary medicinal product no other antiparasitic macrocyclic lactone should be administered.

No interactions between this veterinary medicinal product and routinely used veterinary medicinal products or medical or surgical procedures have been observed.

Safety of this veterinary medicinal product when administered on the same day as an adulticide to remove adult heartworms has not been evaluated.

Overdose (symptoms, emergency procedures, antidotes):

Up to 10 times the recommended dose was tolerated in adult dogs with no evidence of adverse effects or undesirable clinical signs. Five times the recommended minimum dose applied at weekly intervals for 17 weeks was investigated in dogs aged over 6 months and tolerated with no evidence of adverse effects or undesirable clinical signs.

The product was administered to puppies at up to 5 times the recommended dose, every 2 weeks for 6 treatments, and there were no serious safety concerns. Transient mydriasis, salivation, vomiting and transient rapid respiration were observed.

After accidental oral ingestion or overdose, neurological signs (most of which are transient) such as ataxia, generalised tremors, ocular signs (dilated pupils, little pupillary reflex, nystagmus), abnormal respiration, salivation and vomiting may occur in very rare cases.

Ivermectin-sensitive Collie dogs tolerated up to 5 times the recommended dose repeated at monthly intervals without any adverse effects, but the safety of application at weekly intervals has not been investigated in ivermectin-sensitive Collie dogs. When 40 % of the unit dose was given orally, severe neurological signs were observed. Oral administration of 10 % of the recommended dose produced no adverse effects.

Dogs infected with adult heartworms tolerated up to 5 times the recommended dose, every 2 weeks for 3 treatments, without any adverse effects.

In case of accidental oral uptake, symptomatic treatment should be administered. There is no known specific antidote. The use of activated charcoal may be beneficial.

Incompatibilities:

None known.

SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY

Medicines should not be disposed of via wastewater or household waste. The product should not enter water courses as this may be dangerous for fish and other aquatic organisms. Ask your veterinary surgeon how to dispose of medicines no longer required. These measures should help to protect the environment.

DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED

OTHER INFORMATION

Imidacloprid is effective against larval flea stages and adult fleas. Flea larvae in the pet's surroundings are killed after contact with a pet treated with the product.

The drug has a persistent action and protects dogs for 4 weeks after a single application against re-infection with the following parasites: *Dirofilaria immitis*, *Dirofilaria repens*, *Angiostrongylus vasorum*. Studies evaluating the pharmacokinetic behaviour of moxidectin after multiple applications have indicated that steady state serum levels are achieved following approximately 4 consecutive monthly treatments in dogs.

Pack sizes: 0.4 ml, 1.0 ml, 2.5 ml and 4.0 ml per pipette; blister packs containing 3, 6 or 21 unit dose pipettes.

Not all pack sizes may be marketed.

0.4 ml: Vm 00010/4202

1.0 ml: Vm 00010/4203

2.5 ml: Vm 00010/4204

4.0 ml: Vm 00010/4201

For animal treatment only.

To be supplied only on veterinary prescription.

For any information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.

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