

Simparica TRIO

Product Name:

Simparica Trio Chewable Tablets for Dogs 1.25 – 2.5 kg
Simparica Trio Chewable Tablets for Dogs 2.6 – 5 kg
Simparica Trio Chewable Tablets for Dogs 5.1 – 10 kg
Simparica Trio Chewable Tablets for Dogs 10.1 – 20 kg
Simparica Trio Chewable Tablets for Dogs 20.1 – 40 kg
Simparica Trio Chewable Tablets for Dogs 40.1 – 60 kg

Name and Strength of Active Substance(s):

Each tablet contains:

	Sarolaner (mg)	Moxidectin (mg)	Pyrantel (as embonate) (mg)
Simparica Trio Chewable Tablets for Dogs 1.25 – 2.5 kg	3	0.06	12.5
Simparica Trio Chewable Tablets for Dogs 2.6 – 5 kg	6	0.12	25
Simparica Trio Chewable Tablets for Dogs 5.1 – 10 kg	12	0.24	50
Simparica Trio Chewable Tablets for Dogs 10.1 – 20 kg	24	0.48	100
Simparica Trio Chewable Tablets for Dogs 20.1 – 40 kg	48	0.96	200
Simparica Trio Chewable Tablets for Dogs 40.1 – 60 kg	72	1.44	300

Product Description:

Simparica Trio Chewable Tablets for Dogs 1.25 – 2.5 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “3” on one face of the tablet.

Simparica Trio Chewable Tablets for dogs 2.6 – 5 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “6” on one face of the tablet.

Simparica Trio Chewable Tablets for dogs 5.1 – 10 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “12” on one face of the tablet.

Simparica Trio Chewable Tablets for dogs 10.1 – 20 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “24” on one face of the tablet.

Simparica Trio Chewable Tablets for dogs 20.1 – 40 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “48” on one face of the tablet.

Simparica Trio Chewable Tablets for dogs 40.1 – 60 kg: Reddish brown colored, pentagon shaped tablet with rounded edges. Tablet is debossed with Sarolaner strength “72” on one face of the tablet.

Pharmacodynamics:

Sarolaner is an acaricide and insecticide belonging to the isoxazoline family. The primary target of action of sarolaner in insects and acarines is functional blockade of ligand-gated chloride channels (GABA-receptors and glutamate-receptors). Sarolaner blocks GABA- and glutamate-gated chloride channels in the central nervous system of insects and acarines. Sarolaner binding to these receptors prevents the uptake of chloride ions by GABA and glutamate gated ion channels, thus resulting in increased nerve stimulation and death of the target parasite. Sarolaner exhibits higher functional potency to block insect/acarine receptors compared to mammalian receptors. Sarolaner does not interact with known insecticidal binding sites of nicotinic or other GABAergic insecticides such as neonicotinoids, fiproles, milbemycins, avermectins, and cyclodiene. Sarolaner is active against adult fleas (*Ctenocephalides felis* and *Ctenocephalides canis*) as well as several tick species such as *Dermacentor reticulatus*, *Ixodes hexagonus*, *Ixodes ricinus* and *Rhipicephalus sanguineus*.

Ticks on the animal prior to administration or from new infestations after product administration are killed within 48 hours. For fleas, the onset of efficacy is within 12 to 24 hours of attachment for five weeks after product administration.

Fleas on the animal prior to administration are killed within 8 hours. The veterinary medicinal product kills newly emerged fleas on the dog before they can lay eggs and therefore it prevents environmental flea contamination in areas to which the dog has access.

Moxidectin is a second-generation macrocyclic lactone of the milbemycin family. Its principal mode of action is interfering with neuromuscular transmission at the level of the glutamate-gated chloride channels and, to a lesser extent, of GABA (gamma amino butyric acid)-gated channels. This interference leads to the opening of the chloride channels on the postsynaptic junction to allow the inflow of chloride ions. This results in flaccid paralysis and eventual death of parasites exposed to the drug. Moxidectin is active against adults of *Toxocara canis*, L4 larvae and immature stages (L5) of *Ancylostoma caninum*, L4 of *Dirofilaria immitis* and immature stages (L5) of *Angiostrongylus vasorum*.

Pyrantel is a nicotinic acetylcholine (ACh) channel receptor (nAChR) agonist. Pyrantel mimics the agonist effects of ACh through high affinity binding to subtype specific ionophoric nAChRs in nematodes, while not binding to muscarinic mAChRs. Following receptor binding, the channel opens to allow the influx of cations resulting in a depolarization and excitatory effects on nematode muscle, ultimately leading to spastic paralysis of the worm and death. Pyrantel is

active against immature stages (L5) and adults of *Toxocara canis*, adults of *Ancylostoma caninum*, *Toxascaris leonina* and *Uncinaria stenocephala*.

In this fixed combination, moxidectin and pyrantel provide complementary anthelmintic efficacy through distinct mechanisms of action. In particular, both active substances contribute to the overall efficacy against the gastrointestinal nematodes *Ancylostoma caninum* and *Toxocara canis*.

Pharmacokinetics:

Sarolaner is readily and rapidly absorbed systemically following oral dosing, reaching maximum concentrations in plasma within 3.5 hours (t_{max}) after administration with a high bioavailability of 86.7%. Sarolaner is slowly eliminated from plasma (half-life of approximately 12 days) via biliary excretion and elimination through the faeces with minor contributions of metabolic clearance.

Moxidectin is readily and rapidly absorbed systemically following oral dosing, reaching maximum concentrations in plasma within 2.4 hours (t_{max}) after administration and with 66.9% bioavailability. Moxidectin is slowly eliminated from plasma (half-life of approximately 11 days) via biliary excretion and elimination through the faeces with minor contributions of metabolic clearance.

Pyrantel embonate is poorly absorbed and the absorbed portion has a t_{max} of 1.5 hours and half-life of 7.7 hours. Pyrantel is eliminated through faeces and the small absorbed portion is eliminated mainly via urine.

The prandial state of the dogs does not affect the extent of absorption of sarolaner and moxidectin.

Indications:

For dogs with, or at risk from, mixed external and internal parasitic infestations. The veterinary medicinal product is exclusively indicated when use against ticks or fleas and gastrointestinal nematodes is indicated at the same time. The

veterinary medicinal product also provides concurrent efficacy for the prevention of heartworm disease and angiostrongylosis.

Ectoparasites

- For the treatment of tick infestations. The veterinary medicinal product has immediate and persistent tick killing activity for 5 weeks against *Ixodes hexagonus*, *Ixodes ricinus* and *Rhipicephalus sanguineus* and for 4 weeks against *Dermacentor reticulatus*;
- For the treatment of flea infestations (*Ctenocephalides felis* and *Ctenocephalides canis*). The veterinary medicinal product has immediate and persistent flea killing activity against new infestations for 5 weeks;
- The veterinary medicinal product can be used as part of a treatment strategy for the control of flea allergy dermatitis (FAD).

Gastrointestinal nematodes

For the treatment of gastrointestinal roundworm and hookworm infections:

- Toxocara canis* immature adults (L5) and adults;
- Ancylostoma caninum* L4 larvae, immature adults (L5) and adults;
- Toxascaris leonina* adults;
- Uncinaria stenocephala* adults.

Other nematodes

- For the prevention of heartworm disease (*Dirofilaria immitis*);
- For the prevention of angiostrongylosis by reducing the level of infection with immature adult (L5) stages of *Angiostrongylus vasorum*.

Target Species:

 Dogs

Recommended Dose:

SIMPARICA TRIO is given orally once a month. The veterinary medicinal product should be administered at a dose of 1.2–2.4 mg/kg of sarolaner, 0.024–0.048 mg/kg of moxidectin and 5–10 mg/kg of pyrantel in accordance with the following table:

Body Weight (kg)	Tablet strength 3 mg/0.06 mg/ 12.5 mg	Tablet strength 6 mg/0.12 mg/ 25 mg	Tablet strength 12 mg/ 0.24 mg/ 50 mg	Tablet strength 24 mg/ 0.48 mg/ 100 mg	Tablet strength 48 mg/ 0.96 mg/ 200 mg	Tablet strength 72 mg/ 1.44 mg/ 300 mg
1.25 – 2.5 kg	1					
2.6 – 5 kg		1				
5.1 – 10 kg			1			
10.1 – 20 kg				1		
20.1 – 40 kg					1	
40.1 – 60 kg						1
> 60 kg	Appropriate combination of tablets					

Method of administration:

Tablets can be administered with or without food.

SIMPARICA TRIO tablets are palatable and readily consumed by the majority of dogs when offered by the owner. If the tablet is not taken up voluntarily by the dog it can also be given with food or directly into the mouth. The tablets should not be divided.

Treatment schedule:

The treatment schedule should be based on veterinary diagnosis, the local epidemiological situation and/or the epidemiological situation of other areas the dog has visited or is going to visit. If based on veterinarian opinion re-administration(s) of the product is required, any subsequent administration(s) must follow the minimum 1-month interval schedule.

The product should only be used in dogs when treatment of ticks / fleas and gastrointestinal nematodes is indicated at the same time. In the absence of the risk of mixed co-infestation, a narrower spectrum parasiticide should be used.

Treatment of flea and tick infestations and gastrointestinal nematodes:

The veterinary medicinal product can be used as part of the seasonal treatment of fleas and ticks (replacing treatment with a mono-active flea and tick product) in dogs with diagnosed concurrent gastrointestinal nematode infections. A single treatment is efficacious for the treatment of gastrointestinal nematodes. After treatment of the nematode infections, further flea and tick treatment should be continued with a mono-active product.

Prevention of heartworm disease and angiostrongylosis:

A single administration also prevents lungworm disease (by reducing the immature adults (L5) of *A. vasorum*) and heartworm disease (*D. immitis*) for one month. When the product replaces another lungworm or heartworm preventive product, the first dose of the product should be given within a month of the last dose of the former veterinary medicinal product. In endemic areas, dogs should receive lungworm and/or heartworm preventive treatments at monthly intervals. It is recommended that heartworm prevention treatment should be continued until at least 1 month after the last exposure to mosquitoes.

Contraindications:

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

Warnings & Precautions:

Special warnings for each target species:

Ticks and fleas need to start feeding on the host to become exposed to sarolaner; therefore, the transmission of infectious parasite-borne diseases cannot be excluded.

This veterinary medicinal product is not effective against adult *D. immitis*. However, accidental administration to dogs infected with adult heartworms should not pose safety concerns. Dogs in areas endemic for heartworm (or those which have travelled to endemic areas) may be infected with adult heartworms. Maintenance of the efficacy of macrocyclic lactones is critical for *Dirofilaria immitis* control. To minimise the risk of resistance selection, it is recommended that dogs should be checked for both circulating antigens and blood microfilariae at the beginning of each season of preventative treatment. Only negative animals should be treated.

Parasite resistance to any particular class of parasiticides may develop following the frequent, repeated use of a product 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.

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 1.25 kg bodyweight should be based on a benefit-risk assessment by the responsible veterinarian.

The product was well tolerated in dogs with a deficient multidrug-resistance-protein 1 (MDR1 -/-). However, in such sensitive breeds (which may include, but not necessarily limited to, Collies and related breeds), the recommended dose should be strictly observed.

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

Wash hands after handling the product.

The accidental ingestion of the product may potentially result in adverse effects, such as transient excitatory neurological signs. To prevent children from accessing the product, only one chewable tablet at a time should be removed from the blister pack and only when required. The blister pack should then be returned into the carton immediately after use and the carton should be stored out of the sight and reach of children. In case of accidental ingestion, seek medical advice immediately and show the package leaflet or label to the physician.

For Animal Use Only.

Controlled Medicine / Ubat Terkawal

Keep out of reach of children / Jauhi dari kanak-kanak.

Interactions with Other Medicaments:

None known.

Macrocyclic lactones including moxidectin have been shown to be substrates for p-glycoprotein. Therefore, during treatment with the veterinary medicinal product, other products that can inhibit p-glycoprotein (e.g. cyclosporine,

ketoconazole, spinosad, verapamil) should only be used concomitantly according to the benefit-risk assessment of the responsible veterinarian.

Pregnancy and Lactation:

The safety of the veterinary medicinal product has not been established during pregnancy and lactation or in dogs intended for breeding. The use in these animals is not recommended.

Side Effects:

Gastrointestinal signs such as vomiting and diarrhoea, and systemic disorders such as lethargy, anorexia/inappetence may occur in very rare cases based on post-marketing safety experience. In most cases these signs are mild and transient.

Neurological signs such as tremor, ataxia or convulsion may occur in very rare cases based on post-marketing safety experience. In most cases these signs are transient.

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).

Overdose:

No adverse reactions were observed in 8-weeks old healthy puppies administered with up to 5 times the maximum recommended dose for 7 consecutive monthly administrations.

In a laboratory study, the product was well tolerated in dogs with a deficient multidrug-resistance-protein 1 (MDR1 -/-) following single oral administration at 3 times the recommended dose. After a single administration of 5 times the maximum recommended dose to this sensitive dog breed, transient ataxia and/or muscle fasciculation were observed.

Storage Condition: Store below 30°C.

Shelf Life (as packaged for sale): 3 years.

Pack Size:

The tablets are packaged in aluminium foil/foil blisters packaged into an outer carton box. Each tablet strength is available in pack sizes of 1, 3 or 6 tablets. Not all pack sizes may be marketed.

Disposal:

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

Manufactured by:

Corden Pharma GmbH

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68723 Germany

Product Registration Holder:

Zoetis Malaysia Sdn Bhd

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