

DIN 02276593

# EQUIMAX<sup>®</sup>

## ivermectin and praziquantel

Oral paste for horses

**Veterinary Use Only**

For the treatment of parasitic infections due to nematodes, cestodes, and gastric bots in horses and ponies.



### BENEFITS:

- Has been shown 100% effective against the most common species of tapeworm (*A. perfoliata*).
- Numerous studies have proven EQUIMAX<sup>®</sup> safe for:
  - Foals four weeks of age and older.
  - Pregnant and lactating mares - No adverse effects on fertility.
  - Breeding stallions - Semen quality and reproductive hormone levels remained unaffected.
- A full dose contains enough active ingredients to treat horses weighing up to 1,320 lb.
- Easy-to-use-and-handle syringe/applicator for more accurate dosing.
- A smooth, quick-dissolving paste.
- Do not use in horses intended for human consumption.
- Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

### PACKAGING:

PRODUCT NO.	UNIT PACKAGE	OUTER CASE SIZE
1EQU027	6.42 g	6 X (12 X 6.42 g)

	EQUIMAX <sup>®</sup>	OTHER AVAILABLE BRANDS	
<b>ACTIVE INGREDIENTS</b>	1.87% ivermectin 14.03% praziquantel	1.55% ivermectin 7.75% praziquantel	2.0% moxidectin 12.5% praziquantel
<b>FOALS (minimum age)</b>	4 weeks	5 months	4 months
<b>BREEDING STALLIONS</b>	Yes	No	No
<b>PREGNANT MARES</b>	Yes	No	No
<b>LACTATING MARES</b>	Yes	No	No
<b>SYRINGE DOSAGE</b>	Up to 600 kg	Up to 600 kg	Up to 575 kg
<b>FLAVOURING</b>	Apple	None	

**CAUTION:** EQUIMAX Oral Paste has been formulated specifically for use in horses and ponies only. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs may result. Reasonable care should be taken in the handling of sick or debilitated animals. Some horses have experienced reactions associated with swelling and itching shortly after treatment with various equine formulations of ivermectin. In most of these cases, the horses carried heavy infections of *Onchocerca* spp.; it is assumed that the reactions were the result of microfilariae dying in large numbers. Symptomatic treatment, administered by your veterinarian, may be advisable in such cases.

See reverse side for full Indications, Administration and Dosage

DIN 02276593

# EQUIMAX<sup>®</sup>

## ivermectin and praziquantel

**Oral paste for horses**

### Veterinary Use Only

**For the treatment of parasitic infections due to nematodes, cestodes, and gastric bots in horses and ponies.****ACTIVE INGREDIENTS:** Ivermectin 1.87% w/w and praziquantel 14.03% w/w.**INTRODUCTION:** EQUIMAX Oral Paste for horses is a unique combination of ivermectin, a broad-spectrum antiparasitic and praziquantel, a compound active against tapeworms. Its convenience, broad-spectrum efficacy and wide safety margin make it an excellent antiparasitic product for horses.**PRODUCT DESCRIPTION:** EQUIMAX Oral Paste is a clean, white, homogeneous, ready-to-use paste contained in a disposable plastic syringe.**INDICATIONS:** EQUIMAX Oral Paste is indicated for the treatment of the following parasitic infections in horses and ponies:**Large strongyles:** adult and arterial stages of *Strongylus vulgaris*, and adult stage of *S. edentatus*, *S. equinus* and *Triodontophorus* spp.**Small strongyles:** (including those resistant to certain benzimidazole class compounds): adult and luminal larval (L<sub>1</sub>) stages of *Cyathostomum* spp., *Cylicocyclus* spp., *Cylicostephanus* spp., *Cylicodontophorus* spp., and *Gyalocephalus capitatus*.**Intestinal threadworms:** adult stage of *Strongyloides westeri*.**Pinworms:** adults and luminal larval (L<sub>1</sub>) stages of *Oxyuris equi*.**Ascarids:** adults and developing larval (L<sub>3</sub>, L<sub>4</sub>) stages of *Parascaris equorum*.**Hairworms:** adult stage of *Trichostrongylus axei*.**Large-mouth stomach worms:** adult stage of *Habronema muscae*.**Neck threadworms:** microfilariae of *Onchocerca cervicalis*.**Bots:** oral and gastric stages of *Gasterophilus intestinalis* and *G. nasalis*.**Tapeworms:** adult stage of *Anoplocephala perfoliata*.

EQUIMAX Oral Paste is also indicated as an aid in the clinical improvement of dermatoses caused by cutaneous larvae of *Habronema* spp., *Draschia megastoma*, and microfilariae of *Onchocerca cervicalis*. **Note to user** – Healing of "Summer sores" caused by *Habronema* spp. and *Draschia megastoma* and involving extensive tissue changes may require other appropriate therapy in conjunction with treatment with EQUIMAX Oral Paste. Reinfection, and measures for its prevention, should also be considered. Consult your veterinarian if the condition does not improve.

**DOSEAGE:** This syringe contains sufficient paste to treat one 600 kg horse at the recommended dose rate of 200 µg ivermectin/kg and 1500 µg praziquantel/kg body weight. Each weight marking on the syringe plunger delivers enough paste to treat 100 kg body weight.**ADMINISTRATION:** (1) While holding plunger, turn the knurled ring on the plunger 1/4 turn to the left and slide it so the side nearest the barrel is at the prescribed weight marking. (2) Lock the ring in place by making a 1/4 turn to the right. (3) Make sure that the horse's mouth contains no feed. (4) Remove the cover from the tip of the syringe. (5) Insert the syringe tip into the horse's mouth at the space between the teeth. (6) Depress the plunger as far as it will go, depositing paste on the back of the tongue. (7) Immediately raise the horse's head for a few seconds after dosing.**MODE OF ACTION:** Ivermectin is a member of the macrocyclic lactone class of endectocides which have a unique mode of action. Compounds of the class binds selectively and with high affinity to glutamate-gated-chloride ion channel which occur in invertebrate nerve and muscle cells. This leads to the increase of the permeability in the cell membrane to chloride ion with hyperpolarization of the nervous and the muscle cells, resulting in paralysis and death of the parasite. Compounds of this class may also interact with other ligand-gated-chloride channel, such as those gated by neurotransmitter gamma aminobutyric acid (GABA). Ivermectin has no measurable effect against flukes and tapeworms, presumably because they do not have GABA as a nerve impulse transmitter. The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated-chloride ion channels, macrocyclic lactones have a low affinity for other mammalian ligand-gated channels and they do not readily cross the blood brain barrier.

**Praziquantel** is another broad-spectrum antiparasitic compound active against adult and larvae cestodes and also against trematodes. Praziquantel causes paralysis of susceptible worms, or damages to their integument, making them more vulnerable to host enzymes or to the antibody-dependent immune effector mechanism. Praziquantel also causes alterations in the cestode's metabolism, including decreases in glucose uptake, lactate release, glycogen content and ATP content.

**SAFETY:** The results of a tolerance study showed that foals, 2-4 weeks of age, treated at 10 times the recommended dosage of EQUIMAX Oral Paste, did not experience any clinically significant adverse effects. In a reproductive safety study conducted with breeding stallions, the data generated in regards to hematology, serum chemistry, seminal characteristics, reproductive behavior, physical/ physiological characteristics, testicular size and reproductive hormone levels (LH and testosterone) indicate that EQUIMAX Oral Paste can be administered to stallions, at 3X the proposed dosage, given on three occasions at weekly intervals, without any biologically significant adverse effects on these parameters.

In a reproductive safety study, eleven mares were treated with a 3X dose of EQUIMAX Paste every two weeks throughout breeding, pregnancy and lactation, up until the foal was three months of age. Ten mares served as controls and were treated with the vehicle paste in a similar manner.

In the first few weeks of life, two foals born to the 3X treated mares had a higher incidence of transient ocular discharge and gastrointestinal disturbances (loose stools, diarrhea) and depression requiring medical intervention. However none of these observations were considered to be attributable to treatment.

**SUGGESTED PARASITE CONTROL PROGRAM:** All horses should be included in a regular parasite control program. Foals should be treated early in order to promote healthy growth and routine treatment repeated as appropriate. EQUIMAX Oral Paste effectively treats infections due to gastrointestinal nematodes, cestodes and bots of horses.

Regular treatment with EQUIMAX Oral Paste will reduce the chances of colic caused by *Anoplocephala perfoliata* and verminous arteritis caused by *Strongylus vulgaris*. The program should be designed to accommodate the needs of horses and their specific husbandry conditions. If there is a high risk of re-infection with *P. equorum*, foals should be treated at 8-10 week intervals.

With its broad spectrum, EQUIMAX Oral Paste is well suited to be the major product in a parasite control program. Consult your veterinarian for parasitic control programs to meet your specific needs.

**WARNING:** This drug must not be administered to horses that are to be slaughtered for use in food. Refrain from smoking and eating when handling. Wash hands after use. Avoid contact with eyes. Keep out of the reach of children.

**ENVIRONMENTAL SAFETY:** Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive. Drug containers and any residual contents should be disposed safely (e.g., by burying or incinerating) as free ivermectin may adversely affect fish or certain waterborne organisms.

**CAUTION:** EQUIMAX Oral Paste has been formulated specifically for use in horses and ponies only. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs may result. Reasonable care should be taken in the handling of sick or debilitated animals. Some horses have experienced reactions associated with swelling and itching shortly after treatment with various equine formulations of ivermectin. In most of these cases, the horses carried heavy infections of *Onchocerca* spp.; it is assumed that the reactions were the result of microfilariae dying in large numbers. Symptomatic treatment, administered by your veterinarian, may be advisable in such cases.

**PRESENTATION:** EQUIMAX Oral Paste is available in disposable, plastic adjustable dosage syringes containing 6.42 g of paste.

**STORAGE:** Store below 30°C.

**Distributed by:**  
Bimeda-MTC Animal Health Inc.,  
Cambridge ON, N3C 2W4

**Manufactured by:** Virbac AH, Inc.  
3200 Meacham Blvd  
Fort Worth TX 76137 USA

© Registered trademark of Virbac S.A.

