SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Vectin 18.7 mg/g oral paste for horses

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each gram contains:

Active substance:
Ivermectin 18.7 mg

Excipients:

Qualitative composition of excipients and other constituents	**Quantitative composition if that information is essential for proper administration of the veterinary medicinal product**
Maize oil	
Apple flavour	
Polysorbate 80	
Colloidal anhydrous silica	

A yellow, gel-like paste of uniform consistency.

3. CLINICAL INFORMATION

3.1 Target species

Horses.

3.2 Indications for use for each target species

For the treatment of nematode or arthropod infestations in horses due to:

Large strongyles
Strongylus vulgaris (adults and 4th larval [arterial] stages)
S. edentatus (adults and 4th larval [tissue] stages)
S. equinus (adults)
Triodontophorus spp. (adults)
Triodontophorus brevicauda
Triodontophorus serratus

Small Strongyles
Adults and immatures (fourth stage larvae) small strongyles or cyathostomes unless otherwise stated.
Ivermectin is not effective against the encysted larval stages of the small strongyles.

Coronocyclus spp.
- *Coronocyclus coronatus*
- *Coronocyclus labiatus*
- *Coronocyclus labratus*

Cyathostomum spp.
- *Cyathostomum catinatum*
- *Cyathostomum pateratum*

Cylicocyclus spp.
- *Cylicocyclus ashworthi*
- *Cylicocyclus elongatus*
- *Cylicocyclus insigne*
- *Cylicocyclus leptostomum*
- *Cylicocyclus nassatus*

Cylicostephanus spp.
- *Cylicostephanus calicatus*
- *Cylicostephanus goldi*
- *Cylicostephanus longibursatus*
- *Cylicostephanus minutus*

Cylicodontophorus spp.
- *Cylicodontophorus bicornatus*

Parapoteriostomum spp.
- *Parapoteriostomum mettami*

Petrovinema spp.
- *Petrovinema poculatum*

Poteriostomum spp.

Lungworms (adult and inhibited fourth stage larvae)
Dictyocaulus arnfieldi

Pinworms (adult and inhibited fourth stage larvae)
Oxyuris equi

Ascarids (adults and third & fourth stage larvae)
Parascaris equorum

Hairworms (adults)
Trichostrongylus axei

Large-mouth stomach worms (adults)
Habronema muscae

Neck threadworms (microfilariae)
Onchocerca spp.

Intestinal threadworms (adults)
Strongyloides westeri

Stomach bots (oral and gastric stages)
Gasterophilus spp.

3.3 Contraindications

None.

3.4 Special warnings

Care should be taken to avoid the following practices because they increase the risk of development of resistance and could ultimately result in ineffective therapy:

- Too frequent and repeated use of anthelmintics from the same class, over an extended period of time.
- Underdosing, which may be due to underestimation of body weight or misadministration of the product.

Suspected clinical cases of resistance to anthelmintics should be further investigated using appropriate tests (e.g. Faecal Egg Count Reduction Test). Where the results of the tests(s) strongly suggest resistance to a particular anthelmintic, an anthelmintic belonging to another pharmacological class and having a different mode of action should be used.

Resistance to ivermectin has been reported in *Parascaris equorum* in horses in a number of countries, including the EU. Therefore, the use of this veterinary medicinal product should be based on local farm epidemiological information about susceptibility of nematodes and recommendations on how to limit further selection for resistance to anthelmintics.

3.5 Special precautions for use

Special precautions for safe use in the target species:
Parasite resistance to any particular class of anthelmintic may develop following frequent, repeated use of an anthelmintic of that class.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:
Do not eat, drink or smoke while handling the veterinary medicinal product. Avoid contact with skin and eyes. If accidental skin contact occurs, wash the affected area immediately with soap and water. If accidental eye exposure occurs, flush the eyes immediately with water and, if necessary, get medical attention.
Wash hands after use.

Special precautions for the protection of the environment:
EXTREMELY DANGEROUS TO FISH AND AQUATIC LIFE. Do not contaminate surface waters or ditches with product or used containers.

Other precautions:
The veterinary medicinal product has been formulated for use in horses only. Cats, dogs, especially Collies, Old English Sheepdogs and related breed or crosses, and also turtles and tortoises may be adversely affected by the concentration of ivermectin in this product if they are allowed to ingest spilled paste or have access to used syringes.

3.6 Adverse events

Undetermined frequency (cannot be estimated from the available data)	Oedema[1], Pruritus[1]

[1]Experienced by some horses carrying heavy infection of *Onchocerca* microfilariae following dosing, assumed to be the result of death of large numbers of microfilariae. These signs resolve within a few days but symptomatic treatment may be advisable.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See the package leaflet for respective contact details.

3.7 Use during pregnancy, lactation or lay

Pregnancy and lactation:
The safety of the veterinary medicinal product has not been established during pregnancy and lactation.
Use only according to benefit-risk assessment by the responsible veterinarian.
Studies performed in laboratory animals showed no teratogenic or embryotoxic effect of ivermectin at the recommended doses during therapy.
Please refer also to 3.12.

3.8 Interaction with other medicinal products and other forms of interaction

The effects of GABA agonists are increased by ivermectin.

3.9 Administration routes and dosage

Oral use.
Administer orally as a single dose rate to horses at the recommended dose level of 0.2 mg ivermectin per kilogram of bodyweight. The smaller syringe delivers 120 mg ivermectin, sufficient to treat 600 kg of bodyweight. The bigger syringe delivers 160 mg ivermectin, sufficient to treat 800 kg of bodyweight.
To ensure a correct dosage, body weight should be determined as accurately as possible.
If animals are to be treated collectively rather than individually, they should be grouped according to their bodyweight and dosed accordingly, in order to avoid under- or over-dosing.
This is a single dose product. Discard after use.

Dosing Instructions:
Each weight marking on the syringe plunger will deliver sufficient paste to treat 100 kg bodyweight. Unlock the knurled ring by making ¼ turn and slide the knurled ring up the plunger shaft so that the side nearest the barrel is at the prescribed weight marking. Turn the knurled ring ¼ turn to lock in place. Make sure the horse's mouth contains no feed. Remove the plastic cap from the tip of the nozzle. Insert the syringe into the horse's mouth at the interdental space. Advance the plunger as far as it will go, depositing the medication on the base of the tongue. Immediately raise the horse's head for a few seconds after dosing.

The treatment schedule should be based on the local epidemiological situation.

3.10 Symptoms of overdose (and where applicable, emergency procedures and antidotes)

Mild transitory signs (slowed pupillary light response and depression) have been seen at a dose of 1.8 mg/kg (9 times the recommended dose level). Other signs seen at higher doses includes mydriasis, ataxia, tremors, stupor, coma and death. The less severe signs have been transitory. No antidote has been identified; however, symptomatic therapy may be beneficial.

3.11 Special restrictions for use and special conditions for use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products in order to limit the risk of development of resistance

Not applicable.

3.12 Withdrawal periods

Meat and offal: 34 days.
Not authorised for use in animals producing milk for human consumption.

4. PHARMACOLOGICAL INFORMATION

4.1 ATCvet code: QP54AA01

4.2 Pharmacodynamics

Ivermectin is a member of the macrocyclic lactone class of endectocides. Compounds of the class bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate nerve and muscle cells. This leads to an increase in the permeability of the cell membrane to chloride ions and hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasite. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobutyric acid (GABA).
The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated chloride channels, the macrocyclic lactones have a low affinity for other mammalian ligand-gated chloride and they do not readily cross the blood-brain barrier.

4.3 Pharmacokinetics

Following administration of the veterinary medicinal product, ivermectin is rapidly absorbed to reach peak plasma concentration in several hours. This peak falls off gradually over several days.
Ivermectin is eliminated primarily via the faeces. The highest residue levels are found in fat.

At a dose rate of 0.2 mg ivermectin per kilogram of bodyweight, plasma levels of ivermectin reach a mean C_{max} concentration of 40.44 ng/ml and a mean T_{max} at 8.35 hours. This peak falls off gradually to an average level of 3 ng/ml at 10 days.

5. PHARMACEUTICAL PARTICULARS

5.1 Major incompatibilities

None known.

5.2 Shelf life

Shelf-life of the veterinary medicinal product as packaged for sale: 2 years.
To be used immediately after first opening the oral syringe.

5.3 Special precautions for storage

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

5.4 Nature and composition of immediate packaging

High density polyethylene pre-filled dose-graduated disposable syringe containing 6.42 g (smaller syringe) or 8.56 g (bigger syringe) of product.

Pack sizes:
Cardboard box with 1 oral syringe of 6.42 g.
Cardboard box with 1 oral syringe of 8.56 g.

Not all pack sizes may be marketed.

5.5 Special precautions for the disposal of unused veterinary medicinal products or waste materials derived from the use of such products

Medicines should not be disposed of via wastewater <or household waste>.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any national collection systems applicable to the veterinary medicinal product concerned.

The veterinary medicinal product should not enter water courses as ivermectin is extremely dangerous for fish and other aquatic organisms.

6. NAME OF THE MARKETING AUTHORISATION HOLDER

Bimeda Animal Health Limited

7. MARKETING AUTHORISATION NUMBER

Vm 50146/3006

8. DATE OF FIRST AUTHORISATION

19 June 2002

9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS

March 2026

10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS

Veterinary medicinal product subject to prescription.

Detailed information on this veterinary medicinal product is available in the Union Product Database (https://medicines.health.europa.eu/veterinary).

Gavin Hall

Approved: 21 April 2026