

Product Name: ZOLVIX PLUS BROAD SPECTRUM ORAL ANTHELMINTIC FOR SHEEP
APVMA Approval No: 69763/110371



Label Name:	ZOLVIX PLUS BROAD SPECTRUM ORAL ANTHELMINTIC FOR SHEEP AND CATTLE
Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN FOR ANIMAL TREATMENT ONLY READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	2 mg/mL ABAMECTIN 25 mg/mL MONEPANTEL
Claims:	<p>Monepantel is a member of the class of anthelmintics called the Amino-Acetonitrile Derivatives (AADs) while Abamectin is a member of the Macrocyclic Lactone (ML) class of anthelmintics.</p> <p>ZOLVIX PLUS is effective for the treatment and control of sensitive strains of nematodes (roundworms), including nematodes that have single, dual or triple resistance to macrocyclic lactones (including moxidectin resistant strains), benzimidazoles (white drenches), imidazothiazoles (levamisole and morantel (clear drenches)) and closantel (Haemonchus contortus only), or their combinations in sheep.</p> <p>When used at the recommended dose rate (2.5 mg/kg monepantel / 0.2 mg/kg abamectin), ZOLVIX PLUS is effective for the treatment and control of sensitive strains of nematodes (roundworms), including nematodes that have single, dual or triple resistance to macrocyclic lactones (including moxidectin resistant strains), benzimidazoles (white drenches), imidazothiazoles (levamisole and morantel (clear drenches)) and closantel (Haemonchus contortus only) or their combinations in sheep.</p> <p>ZOLVIX PLUS is also effective against AAD-sensitive immature (L4) stages of Haemonchus contortus and Teladorsagia circumcincta in sheep where a combination of a macrocyclic lactone and derquantel is less effective.</p> <p>ZOLVIX PLUS is effective for the treatment and control of nematodes (roundworms) sensitive to monepantel and/or abamectin, including Haemonchus placei and Nematodirus helvetianus strains that have resistance to macrocyclic lactones and Nematodirus helvetianus and Cooperia oncophora strains that have resistance to benzimidazoles (white drenches) in beef cattle and non-lactating dairy cattle.</p> <p>Efficacy spectrum</p> <p>SHEEP</p> <p>Barber's pole worm: Haemonchus contortus**;</p>

Small brown stomach worm: *Ostertagia* (*Teladorsagia*) *circumcincta**, *Ostertagia* (*Teladorsagia*) *trifurcata**, *Ostertagia* (*Teladorsagia*) *davtiani**, *Ostertagia* (*Teladorsagia*) spp. **;
 Black scour worm: *Trichostrongylus colubriformis**, *Trichostrongylus vitrinus**, *Trichostrongylus rugatus**;
 Stomach hair worm: *Trichostrongylus axei**;
 Thin necked intestinal worm: *Nematodirus filicollis**, *Nematodirus spathiger**;
 Small intestinal worm: *Cooperia curticei**, *Cooperia oncophora**;
 Large mouthed bowel worm: *Chabertia ovina**; and
 Large bowel worm: *Oesophagostomum venulosum**.
 ZOLVIX PLUS is also effective against AAD-sensitive immature (L4) stages of *H. contortus* and *T. circumcincta* where a combination of a macrocyclic lactone and derquantel is less effective.

* Includes adult and immature L4 stage

** Includes adult, immature L4 stage and inhibited L4 stage

CATTLE

Barbers pole worm: *Haemonchus placei**;
 Small brown stomach worm: *Ostertagia ostertagi***;
 Stomach hair worm: *Trichostrongylus axei**;
 Small intestinal worm: *Cooperia oncophora**, *Cooperia pectinata**, *Cooperia punctata**, *Cooperia mcmasteri**;
 Thin necked intestinal worm: *Nematodirus helvetianus**;
 Hookworm: *Bunostomum phlebotomum****;
 Nodule worm: *Oesophagostomum radiatum****.

* Includes adult and immature L4 stage

** Includes adult, immature L4 stage and inhibited L4 stage

*** Includes adult stage only

Resistance may develop to any chemical. Ask your local veterinary practitioner or animal health advisor for recommended parasite management practices for your area to reduce development of resistance. It is advisable that a resistance test be conducted before any parasite treatment is used.

Mode of Action

AADs have a completely unique mode of action compared to all other anthelmintics available on the market. Monepantel causes a paralysis of the worms by binding to a specific receptor that is only found in nematode parasites (roundworms). It is believed that the high margin of safety in sheep and cattle, and environmental safety is attributable to the fact that the specific receptor for the AADs has not been found in any animal species other than nematodes. Abamectin causes paralysis and death of target organisms via the activation of a glutamate gated chloride channel present in invertebrate nerve and muscle cells, and/or through the effect on gamma-aminobutyric acid v(GABA) receptors.

Net Contents:	0.5L 10L 15L 1L 2.5L 20L 5L
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Directions for Use:	DIRECTIONS FOR USE
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Restraints:	DO NOT USE in sheep less than 10 kg bodyweight. DO NOT USE in cattle less than 100 kg bodyweight.
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	<p>DO NOT USE in ewes which are producing or may in the future produce milk that may be used or processed for human consumption.</p> <p>DO NOT USE in lactating cows or within 49 days of calving where milk may be used or processed for human consumption.</p> <p>Re-treatment interval</p> <p>SHEEP: DO NOT re-treat animals for 42 days after the last treatment.</p> <p>CATTLE: DO NOT re-treat animals for 21 days after the last treatment. After three consecutive treatments, 61 days must elapse before treating again.</p>																						
Contraindications:	<p>This product is contraindicated for use in lambs under 6 weeks of age or less than 10 kg body weight.</p> <p>This product is contraindicated for use in calves under 16 weeks of age or less than 100 kg body weight.</p>																						
Precautions:	<p>Safety in breeding cattle and pregnant or lactating cows has not been established.</p>																						
Side Effects:																							
Dosage and Administration:	<p>Use remaining product within 12 months of opening the container.</p> <p>ZOLVIX PLUS is a ready to use oral solution.</p> <p>A representative sample of animals should be weighed before treatment. Dose the animals to the heaviest liveweight in each group. DO NOT under dose. Where there is a large variation in weight within the group, dose should be based on the label directions for each weight range. Drafting into two or more lines may be appropriate, to avoid excessive overdosing. A correct drenching technique is recommended; carefully place the drench gun nozzle in the side of the mouth and over the back of the tongue before delivering the dose.</p> <p>Check dose rates and drench gun before treatment commences. Drench animals orally using an Elanco recommended drench gun. Maintain applicator gun carefully to ensure accurate dosage. After use, clean gun by flushing with warm, soapy water. Rinse with cold water.</p> <p>SHEEP</p> <p>The dose for sheep and lambs is 0.5 mL/5 kg (1 mL/10 kg), equivalent to 2.5 mg monepantel/kg and 0.2 mg abamectin/kg body weight.</p> <p>Body Weight Dose</p> <table> <tr> <td>(kg)</td> <td>(mL)</td> </tr> <tr> <td>10-15</td> <td>1.5</td> </tr> <tr> <td>16-20</td> <td>2.0</td> </tr> <tr> <td>21-25</td> <td>2.5</td> </tr> <tr> <td>26-30</td> <td>3.0</td> </tr> <tr> <td>31-35</td> <td>3.5</td> </tr> <tr> <td>36-40</td> <td>4.0</td> </tr> <tr> <td>41-50</td> <td>5.0</td> </tr> <tr> <td>51-60</td> <td>6.0</td> </tr> <tr> <td>61-70</td> <td>7.0</td> </tr> <tr> <td>71-80</td> <td>8.0</td> </tr> </table> <p>Sheep in excess of 80 kg body weight should be dosed at 1 mL/10 kg.</p> <p>CATTLE</p> <p>The dose for cattle is 5 mL/50 kg (1 mL/10 kg), equivalent to 2.5 mg monepantel/kg and 0.2 mg abamectin/kg body weight.</p>	(kg)	(mL)	10-15	1.5	16-20	2.0	21-25	2.5	26-30	3.0	31-35	3.5	36-40	4.0	41-50	5.0	51-60	6.0	61-70	7.0	71-80	8.0
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	<p>Body Weight Dose (Kg) (mL)</p> <p>100 10</p> <p>101-120 12</p> <p>121-150 15</p> <p>151-200 20</p> <p>201-250 25</p> <p>251-300 30</p> <p>301-350 35</p> <p>351-400 40</p> <p>401-450 45</p> <p>451-500 50</p> <p>501-550 55</p> <p>551-600 60</p> <p>601-650 65</p> <p>Cattle in excess of 650 kg body weight should be dosed at 5 mL/50 kg.</p>
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General Directions:	
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Withholding Periods:	<p>MEAT (SHEEP): DO NOT USE less than 14 days before slaughter for human consumption.</p> <p>MEAT (CATTLE): DO NOT USE less than 12 days before slaughter for human consumption.</p> <p>MILK (SHEEP): DO NOT USE in ewes which are producing or may in the future produce milk that may be used or processed for human consumption.</p> <p>MILK: (CATTLE): DO NOT USE in lactating cows or within 49 days of calving where milk may be used or processed for human consumption.</p>
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Trade Advice:	<p>EXPORT SLAUGHTER INTERVAL (ESI): DO NOT USE less than SHEEP: 84 days and CATTLE: 61 days before slaughter for export. Before using this product, confirm the current ESI from Elanco Australasia on 1800 226 324 or the APVMA website (www.apvma.gov.au/residues).</p>
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Safety Directions:	<p>Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. When opening the container and using the product, wear elbow length chemical-resistant gloves. If product on skin, immediately wash area with soap and water. Wash hands after use. After each days use, wash gloves.</p>
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First Aid Instructions:	<p>If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126.</p>
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First Aid Warnings:	
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Additional User Safety:	
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Environmental Statements:	<p>Protection of Wildlife, Fish, Crustacea and Environment</p> <p>Do not contaminate dams, waterways or drains with the product or used containers. Do not discharge waste liquid into streams.</p>
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Disposal:	<p>0.5L; 1L Dispose of container by wrapping with paper and putting in garbage.</p> <p>2.5L; 5L; 10L, 15L, 20L (HDPE Bottles) The container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate or any undiluted chemical according to State legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately. DO NOT burn empty containers or product.</p> <p>(Aluminium pouches) Triple or pressure rinse container for disposal. Dispose of rinsate or any undiluted chemical according to State legislative requirements. In not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty container or product.</p>
Storage:	<p>Store below 30 [degree sign] C (room temperature). Store in the original tightly closed container. Protect from light.</p>