




# Product Information

## AHD B<sub>12</sub> 2000 + Selenium Injection

Name:	AHD B <sub>12</sub> 2000 + Selenium Injection	
Pack Size/s:	500mL	
AHD Product Code:	AHDB122000+se500	
Main Points:	For the prevention and treatment of vitamin B <sub>12</sub> (cobalt) and selenium deficiencies in sheep and cattle	
Status:	OTC /Vet	
Ingredients:	<ul style="list-style-type: none"><li>Hydroxocobalamin (as acetate) 2000µg/mL</li><li>Selenium (as sodium selenate) 4mg/mL</li></ul> Benzyl Alcohol (preservative) 1.5%	
Indications:	<ul style="list-style-type: none"><li>Cobalt is an essential component of vitamin B<sub>12</sub> (cyanocobalamin) which in ruminants is synthesised by microorganisms in the rumen. Under conditions of adequate dietary cobalt, microbial synthesis of vitamin B<sub>12</sub> is usually sufficient to meet the animal's requirements. Vitamin B<sub>12</sub> deficiencies occurs in animals grazing pastures with low cobalt content. Inadequate cobalt content of pastures may be related to a primary soil cobalt deficiency or various factors which reduce cobalt intake by plants. Seasonal variations in pasture cobalt content occur and deficiency is commonly associated with rapid spring pasture growth.</li><li>Vitamin B<sub>12</sub> has an essential role in ruminants as co-enzymes involved in the energy-producing pathway, gluconeogenesis. Propionic acid, a major product of carbohydrate metabolism in the rumen is converted to glucose in the liver via a B<sub>12</sub>-containing enzyme. This conversion is critical in ruminants as they absorb little dietary glucose and are therefore dependent on gluconeogenesis for glucose production.</li><li>Vitamin B<sub>12</sub> also acts as a co-enzyme in the formation of DNA, so is essential for cell maturation, division and growth. Deficiencies of vitamin B<sub>12</sub> result in a general depression of cellular development and growth. Normal red blood cell production involves particularly rapid cellular growth and proliferation, thus adequate amounts of vitamin B<sub>12</sub> are vital for this process.</li></ul>	
Action:	<p>Vitamin B<sub>12</sub> has an essential role in ruminants as a co-enzyme involved in the energy -producing pathway, gluconeogenesis. Propionic acid, a major product of carbohydrate fermentation in the rumen, is converted to glucose in the liver via a B<sub>12</sub> – containing co -enzyme. This conversion is critical in ruminants, as they absorb little dietary glucose and are therefore dependent on gluconeogenesis for glucose production.</p> <p>Vitamin B<sub>12</sub> also acts as a co- enzyme in the formation of DNA, so essential for cell maturation, division and growth. Deficiencies of vitamin B<sub>12</sub> result in a general depression of cellular development and tissue growth. Normal red blood cell production involves particularly rapid cellular growth and proliferation, thus adequate amounts of vitamin B<sub>12</sub> are vital for this purpose.</p>	



### Animal Health Direct Limited

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<b>Administration:</b>	<p>Do not use unless selenium deficiency has been diagnosed.</p> <p>By subcutaneous or intramuscular injection. Injection to be given into the anterior half of the neck.</p> <p>Repeat as directed by veterinary surgeon. Frequency of dosing should be related to the severity of the deficiency.</p> <ul style="list-style-type: none"><li>Do not use at the same time as any other selenised fertiliser, prill or product without consulting with a veterinarian. Do not exceed the stated dose or dose more frequently than 3-weekly.</li></ul>
<b>Dosage:</b>	<ul style="list-style-type: none"><li>Lambs: 0.5mL</li><li>Adult Sheep: 0.75-1.25mL</li><li>Calves: 1.5 -2.5mL</li><li>Adult Cattle: 3-6mL</li></ul>
<b>Special Precautions:</b>	<p>Do not use at the same time as any other selenised fertiliser, prill or product without consulting with a veterinarian. Do not exceed the stated dose or dose more frequently than 3-weekly.</p> <p>WITHHOLDING PERIODS. NIL</p>
<b>Storage:</b>	<p>DISPOSE of empty container by wrapping with paper and putting it in the garbage.</p> <p>STORE below 25°C (air conditioning). Protect from light. Once vial is broached use contents within 6 months or discard</p> <p>KEEP OUT OF REACH OF CHILDREN</p>
<b>Registration:</b>	<p>Registered pursuant to the ACVM Act 1997 No A011363.</p> <ul style="list-style-type: none"><li>See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions</li></ul>
<b>Category:</b>	Dietary support



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