

KEEP OUT OF REACH OF CHILDREN

# MagDiet

High Quality  
Magnesium Supplement  
For Farm Animals



**Magnesium 3% w/v+Amino Acid 3%w/v**

50mls to 100mls per day for large animals (cow / horse etc)

5mls to 10mls per day for small animals (sheep, pig etc)

MIX WITH DRINKING WATER / DRENCH / FEED

Grass tetany, a metabolic disease in cattle grazing lush, cool-season grasses, is the primary association with magnesium (Mg). The root of this disease is in magnesium's role in biological function. Magnesium is a key component in the initiation of many metabolic enzymes and pathways, and also is important in neuromuscular function. Magnesium deficiencies reduce calving rates, calf vigor and rate of gain in calves. Low Mg in the grass doesn't cause poor calf performance directly, but it does reduce the cow's milk production. If the cow's Mg requirements are not met, reduced conception rates would be the primary deficiency symptom. Grass tetany, also termed hypomagnesemia, simply means a deficiency in Mg. Prolonged Mg deficiency results in excessive urination, erratic and nervous behavior (also called grass staggers), twitching of facial muscles, convulsion and death. While all ruminants are susceptible to the disorder, older lactating cows are at the greatest risk. Grazing lush, rapidly growing, cool-season grasses usually are associated with grass tetany. In northern regions, where producers feed more harvested forages, winter tetany can be a problem. Many grass hays and cereal grain hays, such as oat hay, typically are low in Mg (< 0.15 percent) and high in K. When Mg levels in hay fall below 0.12 percent, cattle may become vulnerable to Mg deficiency. In addition, if calcium levels are low and potassium levels are high in these feed sources, winter tetany can result. Legume-based hays, however, generally have adequate (0.27 percent to 0.33 percent) Mg. Drought conditions often result in increased use of these hays and crop residue alternatives. Drought-stressed annual forages typically are higher in K, which also contributes to the condition. Feeding a mineral supplement high in Mg should prevent problems associated with grass or winter tetany.



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