



MERRI VIT B12

Feed Additive

Composition: 1 ml of the product contains: cyanocobalamin (vitamin B12) 500 µg, water (moisture content).

Type of packaging: PET bottle with cap of 100 ml.

Properties and action: The product is a long-life sterile solution of vitamin B12. The vitamin contained in the product play a very important role in the metabolism of carbohydrates, fats and proteins. They are also necessary for the proper functioning of the nervous system, muscle and epithelial tissues. Deficiencies of vitamin B12 in animals give the original symptoms arising mainly as a result of the disturbances in the synthesis of nucleic acids and porphyrins, in the transformation of propionic acid in glucose and metabolism of lipids, proteins and cell membranes. Disorders in nucleic acid synthesis and porphyrin lead to anaemia, increase white blood cells of multi-piece nucleus and enlarge lymphocytes with leukopenia. The disorder of nucleic acid synthesis reflects clearly the reduction or disappearance of the proliferation of epithelial cells of the gastrointestinal tract, which leads to the present alternating constipation and diarrhoea problems. The participation of vitamin B12 in the transformation of propionic acid in ruminants is very important. Disorder of alternation of propionic acid into glucose results decreased milk production, decreased weight increments, and emaciation. In cattle, this condition can occur as a result of forestomach microflora disorders (diet change, use of antibiotic ionophores) and high production at the same time. In addition, the protective cobalamin performs the function of the liver protection; it stimulates pancreatic and pituitary secretion.

Indications: The preparation shall be applied in the case of vitamins B12 deficiency, especially in the period of intense growth and development and during the treatment with antibiotics.

Recommendations for use and Dosage: The product is administered in drinking water for all animal species in dosage: **cattle, horses** – 2-5 ml of the product daily per animal; calves, foals– 1-3 ml of the product daily per animal; **fattening pigs, covered sows and farrowing sows, piglets, dogs, sheep, goats** – 0,5-1,5 ml of the product daily per animal; poultry – 2,5 ml per 10 liter of drinking water (100 ml of the mixture per 400 liter of water).

Recommendations for the proper use: SHAKE BEFORE USE. Read the label to ensure proper use of the product.