

DiarFix



Article number
102111

**Dietetic
supplementary feed**

Animal species
calves

Content
5 kg

GMP+ FSA assured
GMO controlled
PDV103322

Diarrhea in calves

Diarrhea is one of the most common health issues among young animals. It is most commonly caused by a virus, bacteria or parasite. Examples include E-coli, Rota and Corona virus, Cryptosporidiosis and Salmonella (Kehoe and Heinrichs, 2005). These pathogens mainly work by adhering to the intestinal wall. From there, they produce substances (including toxins) that disturb the balance between absorption and excretion of fluids and electrolytes. Generally speaking, the result is too much fluids being excreted: diarrhea. This diarrhea often begins following infestation with the intestinal parasite *Cryptosporidium parvum*. However, incorrect feed or overfeeding can also cause diarrhea. In all cases, calves lose a great deal of fluids, electrolytes and energy. Within one day, a calf can lose 5 to 10% of its body weight in fluids (Kehoe & Heinrichs, 2005). Furthermore, there is a greater chance that the calf acidifies – the pH value of the blood falls – as it loses a lot of alkalinity. All this results in the calf becoming dehydrated, losing weight and not growing normally. Severe diarrhea can even be life-threatening. It is therefore extremely important to treat diarrhea in calves quickly and adequately.

Topro DiarFix

Topro DiarFix has been developed for stabilisation of water and electrolyte balance. Topro DiarFix is a supplementary dietetic feed. It contains the basic elements, such as energy, electrolytes, vitamins and buffer substances. Linseed, yeast cell walls and oregano have also been added. Energy has been added in the form of dextrose. Sodium bicarbonate combats acidosis and the electrolytes supplement any deficits in electrolytes. Yeast cell walls (MOS) have a prebiotic effect and promote health by stimulating the production of antibodies, for example. They also bind to pathogenic bacteria, including *E. coli* and *Salmonella* (Heinrichs, Jones & Heinrichs, 2003). Linseed provides a protective layer inside the intestines, and has been used to combat diarrhea for centuries. Oregano is capable of binding to pathogenic bacteria and rendering them harmless by damaging the cell walls. The added vitamins promote and support the animal's immunity and their general health. The added trace elements also play an important role in this respect. Furthermore, the trace elements copper and selenium

play an important role in protection against free radicals (CVB, 2005). All in all, a comprehensive and carefully compiled product.

Composition

Linseed meal, dextrose, dried carob pod meal, whey powder, wheat starch, yeasts (inactive *saccharomyces cerevisiae*), sodium chloride, sodium bicarbonate, psyllium seed kernel, banana flour, wheat flour, yeasts and parts thereof, cereals, colostrum, potassium chloride, calcium carbonate.

Additives per kg

Vitamins, pro-vitamins and chemically well-defined substances having similar effect:

Vitamin A 100,000 IU
Vitamin D3 12,000 IU
Vitamin E 240 mg
Vitamin B1 16.02 mg
Vitamin B2 12.00 mg
Vitamin B6 8.02 mg
Vitamin B12 160.20 mg



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Storage advice

Keep product cool, dry and out of reach of children. Protect against frost. Keep packaging closed after use.

Instructions for use

Use Topro DiarFix in case of, or during risk of digestive disorders (diarrhea).

High dosage: 60 grams per litre of water for 1-3 days. Administer 2 liters to the calf twice a day inbetween the milk feeds.

Low dosage: 20 grams per litre of milk for 1-7 days.

Product characteristics

Dextrose	Quick source of energy for calves
Electrolytes	Direct supplement for the loss of electrolytes
Sodium bicarbonate	Combats acidosis as a result of diarrhea, and stimulates drinking.
Yeast cell walls (MOS)	Can adhere to the intestinal wall to protect it. To bind E. coli and Salmonella, among others.
Linseed	Protects the intestinal wall, through formation of a mucus layer.
Oregano oil	Binds and neutralises harmful bacteria, by damaging the cell walls of pathogens. Reduces discharge of pathogenic parasites in manure.
Vitamins A, D3 and E	Boosts immunity and health.
Trace elements	Important for general metabolism and resistance.

Literature

CVB, (2005) Handleiding Mineralen Rundvee, Schapen, Geiten. Lelystad, Netherlands: Centraal Veevoederbureau (in Dutch)

Heinrichs J., Jones C.M., and Heinrichs B.S. (2003) Effects of Mannan Oligosaccharide or Antibiotics in Neonatal Diets on Health and Growth of Dairy Calves, Journal of Dairy Sciences 86: 4064-4069

Kehoe S., Heinrichs J. (2005) Electrolytes for dairy calves, Department of Dairy and Animal Sciences, The Pennsylvania State University