

KetoDuo bolus



Article number
102145

Dietetic supplementary feed

Animal species
dairy cows

Content
12 x 70 g

GMP+ FSA assured
GMO controlled
PDV103322

Ketosis

This is a common disease in dairy cattle: ketosis. Studies show that in the first two months after calving, some one in ten cows suffer from this (Veeteelt, 2 Feb. 2012). The percentage of cows that suffer from sub-clinical ketosis is even higher. Ketosis is the result of a negative energy balance. This occurs as the cow begins to produce large volumes of milk after calving. However, feed intake lags behind, so the cow does not get enough energy. The effect is that the cow burns body fat (fat mobilisation) to meet its energy requirements. Liver function is crucial here, as this organ ensures the conversion of body fat into available energy. The liver often becomes overloaded in this situation, meaning that it functions sub-optimally and that the body fat is only partially broken down. This results in the formation of ketone bodies (β-Hydroxybutyric acid, abbreviated BHBA). When the concentration of ketone bodies exceeds a certain level (BHBA > 1.20 mmol per litre), we refer to ketosis. The result of this is that the cows are sluggish, eat less, produce less milk and are more vulnerable to diseases such as metritis and displaced abomasum. Fertility levels also decline. Ketosis is therefore a considerable cost item for dairy farmers and must be prevented wherever possible.

Topro Keto Duo

The Topro Keto Duo bolus has been developed to support the liver and energy balance. The treatment requires administration of two boluses. The Keto Duo bolus contains readily available energy in the form of calcium propionate. This bolus also contains sorbitol to stimulate the production of bile. Bile is necessary in order to digest fats, relieving and protecting the liver. Niacin, yeast and cobalt have also been added to this bolus, particularly to stimulate rumen activity. The focus of the Keto Duo bolus is on protection of the liver. Curcuma, fennel, boldo, artichoke and thistle have therefore been added to this bolus. All these plant extracts have been proven to protect the liver and to also stimulate bile production and the cow's appetite. Alongside these plant extracts, choline, betaine, vitamins B2 and B12 and methionine have been added in a rumen-bypass form. All these ingredients play an important role in optimum liver functioning at the start of lactation.

Composition

Sorbitol, magnesium oxide, inactivated yeast, calcium stearate.

Additives

Nutritional additives

Vitamin B2: 280 mg/kg*
Vitamin B12: 4 mg/kg*
Niacin: 190,000 mg/kg
Choline: 15,000 mg/kg*
Betaine: 9,000 mg/kg*
Cobalt: 100 mg/kg,
DL-Methionine: 66,000 mg/kg*

Sensory additives

Mixture of aromatic substances.

Technological additives

E282 Calcium propionate
(* = rumen-bypass additives)



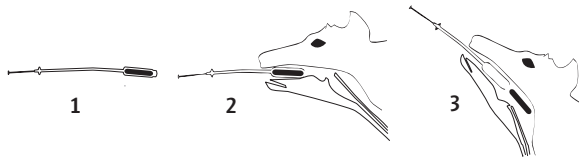


KetoDuo bolus

Storage advice

After opening, store dry in well-sealed packaging.

Instructions for use



- Administer with a suitable bolus applicator (remove foil).
- Protective measures must be taken to avoid exposure to cobalt through inhalation or through the skin.

Dosage

- 2 boluses one week before calving.
- 2 boluses at calving.

Product characteristics

Calcium propionate	Readily available energy, which the cow really needs just after calving.
Yeast, cobalt, niacin	Positive effect on the rumen microbiota for optimum rumen functioning. Niacin improves digestion of fats, reducing production of ketones.
Plant extracts: Curcuma, Fennel, Boldo, Artichoke, Distel	Protect the liver (thistle detoxifies for example) and promote bile production and appetite.
Vitamins B2 and B12*	Ensure conversion of fatty acids, to relieve the liver.
Choline*	Less fatty deposits in the liver. Supports liver functioning.
Betaine*	Protects against fatty liver by, for example, stimulating fat conversion in the liver.
Methionine*	Methionine is necessary for fat metabolism in the liver. Removes toxic substances from the liver.

* all these additives are rumen resistant (bypass).