

# Rumen bolus



**Article ID**  
102150

**Dietetic supplementary feed**

**Animal species**  
Dairy cattle

**Content**  
12 x 75 g  
6 treatments

GMP+ FSA certified  
GMO controlled  
PDV103322

## Rumen function

In dairy cattle, an optimal rumen function is a prerequisite for proper ration utilization and energy supply. Especially at the start of lactation, it is essential to reduce the negative energy balance as much as possible.

A cow that ruminates well and has a good rumen function, will produce adequate amounts of sodium bicarbonate, the saliva component that is produced during rumination. Bicarbonate is essential as a buffering agent to prevent rumen acidosis. Rumen acidosis causes a decrease in propionate production, and threatens the energy supply of the dairy cow.

Propionic acid is a volatile fatty acid that is essential for proper fat metabolism (Krebs cycle) in the liver. The pH in the rumen should be ideally around 6 – 6.5.

## Topro Rumen bolus

To support the rumen flora, the Topro Rumen bolus has been developed. The bolus contains ingredients that remain active in the animal during one week. The bolus releases propionate in the rumen, important for fat metabolism. Also, sorbitol, niacin (vit B3), yeast and cobalt have been added, to stimulate digestion and rumen function.

## Dosage

- Two boluses in case of decreased activity of rumen microbiota (change of ration, loss of appetite).
- Two boluses the next day.

## Composition

Sorbitol, vegetable fat from rapeseed, yeast (inactivated), magnesium oxide, calcium stearate.

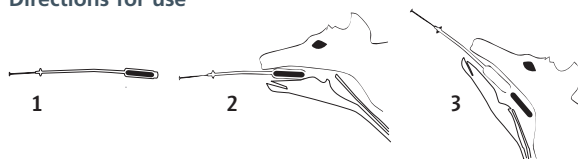
## Added per kg:

|                                     |               |
|-------------------------------------|---------------|
| Calcium propionate.....             | 150,000 mg/kg |
| Niacin.....                         | 400,000 mg/kg |
| Cobalt (cobalt (II) carbonate)..... | 100 mg/kg     |

## Recommendations for storage

Keep cool, dry, and out of reach of children. Protect from frost.

## Directions for use



- Administer with a suitable bolus shooter (remove foil).
- Take protective measures to avoid exposure to cobalt through inhalation or via the skin.
- It is recommended to seek expert advice from a veterinarian or a nutritionist before use, or before prolonged use.





# Rumen bolus

## Product characteristics

|                        |   |
|------------------------|---|
| Propionate             | Provides rapidly available energy   |
| Niacin<br>(Vitamin B3) | Improves fat digestion, decreases<br>formation of ketone bodies   |
| Cobalt                 | Essential for the production of<br>Vitamin B12 in the rumen. Vit. B12<br>is required for the breakdown of<br>fat in the liver |
| Sorbitol               | Stimulates the production of bile<br>juices, required for fat digestion   |
| Yeast                  | Positive effect on rumen microbes,<br>thus optimizing rumen function  |
| Bolus                  | Easy to administer, guaranteed<br>uptake  |