

## Feed supplement containing live yeast for a healthy rumen

**jbs rinderhefe 4/10** is manufactured in a special drying process; spheres of live yeast are produced by coating the live yeast cells in a layer of inactive yeast. This ensures that the live yeast will stay inactive until it enters the rumen all the while remaining protected from air, moisture and fermentation acids. **jbs rinderhefe 4/10** contains: live yeast, calcium carbonate, magnesium oxide.

### Application

**jbs rinderhefe 4/10** should be fed in a sufficient amount on a regular basis. Due to their high volume yet low weight, the carriers ensure an accurate distribution.

Application of **jbs rinderhefe 4/10** should start 4 weeks before calving and continue throughout lactation up to the dry period, administering 20 g per animal per day.

**jbs rinderhefe 4/10** is also suitable for cattle fattening or for female breeding stock, administering 10 - 20 g per animal per day.

**Packaging:** 20 kg bag



### Effects of the live yeast used in **jbs rinderhefe 4/10**, *Saccharomyces cerevisiae*, on the rumen

#### Live yeast consumes ruminal oxygen

Oxygen is toxic for most ruminal microorganisms. Live yeast reduces oxygen, the amount of cellulose-degrading microorganisms increases. This may be observed in the animals' manure after just a short period of time (see back): fibre and kernel residue is reduced. As live yeast binds the oxygen, a higher amount of free hydrogen will be available for the formation of propionic acid.

In the dry period as well as during lactation, feeding low-energy rations results in an increased production of propionic acid in the rumen. In the liver, this acid is subsequently transformed into the energy source glucose.

#### Live yeast keeps rumen pH at optimal level

Lactic acid-consuming bacteria are particularly stimulated and their ruminal population increases significantly.

An increased transformation from lactic acid into propionic acid further diminishes the risk of acidosis when feeding high-energy rations.



### At a glance

- stabilizes the rumen, especially if animals are stressed
- reduces the risk of acidosis
- reduces the amount of feed residue in the manure
- GMO free



## Improved protein supply

A well-functioning rumen provides the basis for healthy, high-yielding dairy cows. The more microorganisms are active in the rumen, the better the feed conversion.

**jbs rinderhefe 4/10** increases the ruminal microbial population and provides the cow with a better supply of high-quality, easily digestible bacterial protein in addition to improving feed conversion and increasing feed intake.

This in turn has positive effects on milk yield.

## Sieve test

Using the simplest of means, the sieve test provides the possibility to envision the proceedings in the dairy cow's digestive tract. Put a sample of the manure in a common kitchen sieve and rinse with water until the water stays clear. The undigested feed components will remain in the sieve. Amount and type of the residue shows the digestion's intensity. Feeding of live yeast is clearly visible in a reduced amount of residue - especially the amount of maize kernels is significantly reduced.



Feed ration **without** live yeast



Feed ration **including** live yeast



### Please note: detoxification function ceases!

If the pH drops below 6, a vital function of the rumen will falter: The degradation of toxins by single cell organisms like protozoa. Protozoa degrade complicated molecules such as mycotoxins but require a higher pH level for maintaining their vital functions. Thus, a rumen with frequently low pH levels bears the high risk that toxins are not degraded and will get into all organs via the bloodstream further on in the intestinal tract.

Always as close  
as your telephone!



Safeguarding the ruminal pH supports the rumen's natural detoxification function.