

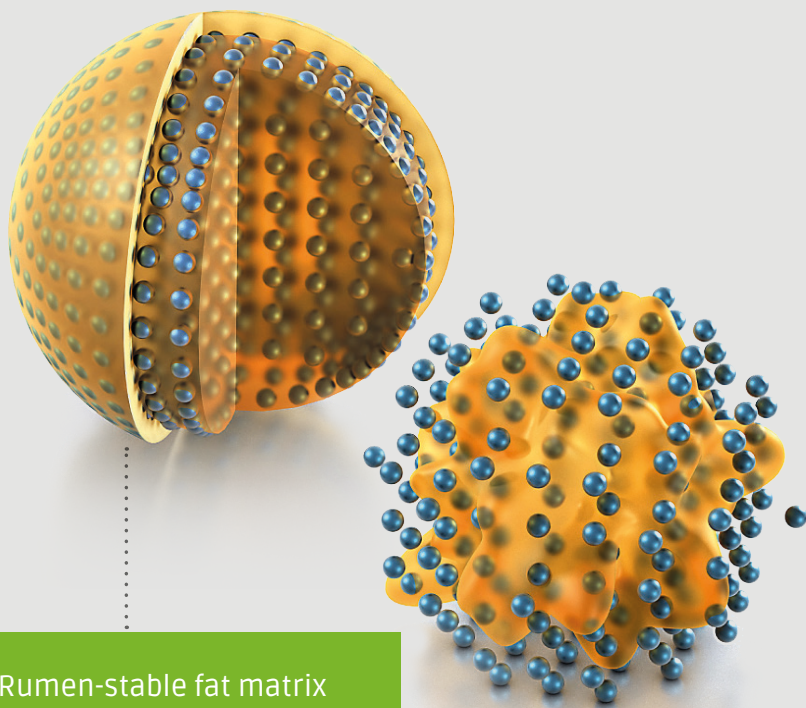


BEWITAL agri
specialist in milk & fat



Innovation cows

THE MOST EFFICIENT SOLUTION
for an improved hoof health and milk yield



Rumen-stable fat matrix
based on **European raw
materials**. Suitable for use
in dairy quality programs.

BEWI-FATRIX® Biotin

- Highly effective, rumen-protected biotin
- To support the milk yield and hoof health effectively in high-performance cows
- Special matrix encapsulation to reduce losses in the rumen, for best availability in the small intestine
- Significantly improved economy through more efficient biotin supply in metabolism



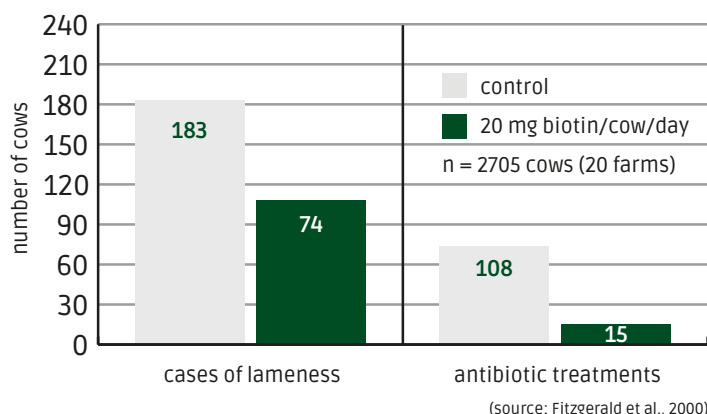
The advantage for feed manufacturers and dairy farmers: Significantly reduced use of active ingredients



An optimal function of the energy metabolism is essential to achieve high milk yields. The water-soluble vitamin biotin has key functions as a coenzyme in both glucose- and in fat metabolism. At the same time, it is important for strength and structure of the hoof horn. The natural ruminal synthesis is often insufficient, especially when using high performance rations which are rich in starch.

Research shows that only less than 50 % of unprotected biotin, which is given by feed, reaches the small intestine. This is due to the microbial degradation in the rumen. In the past, positive effects on milk yield and hoof health have only been reached if very high biotin supplements were fed. This has negative effects on efficiency.

Biotin supplement brings significant additional effects

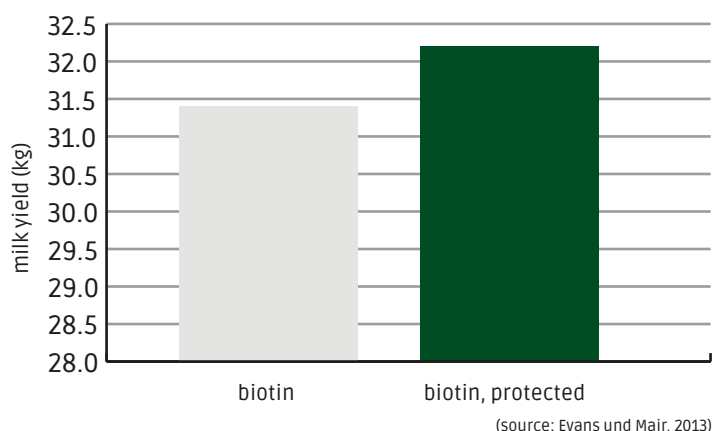


A sufficient supply via feeding is necessary because the own synthesis of rumen microbes of high-production cows is often inadequate.

Allowances have been found as general care recommendations of 10 - 20 mg biotin per animal / day.

In numerous experiments the effects on the performance (+ 0.9 kg milk with 10 mg or + 2.8 kg milk with 20 mg biotin supplement) and the claw health are impressively shown (Zimmerly and Weiss, 2001).

Cost efficiency of used biotin products



Water-soluble vitamins are added to the feed without protection to a large extent not rumen stable.

What is known for the choline supplement also applies to biotin.

Current presentations by Santschi et al. (2005) and Hutjens (2020) suggest a >50 % rate of loss when biotin is added to the ration in unprotected form.

By using biotin in a rumen-protected form a significant reduction in the quantities used and thus the costs possible.

BEWI-FATRIX® Biotin provides the vitamin in a rumen-protected form and compensates for the high rate of loss of products previously used on the market (unprotected).

