

BEWI-FATRIX® Biotin: Highly effective biotin in rumen-protected form for effective support of highest milk yield and best hoof health

With BEWI-FATRIX® Biotin, feed specialty producer from Germany, BEWITAL agri GmbH & Co. KG, offers a highly effective biotin in a rumen-protected form. Biotin plays a key role in energy metabolism (milk production) and in maintaining the strength of the hoof horn. Only in a rumen-protected form Biotin reaches the dairy cow's metabolism without major losses in the rumen. The coating is based on European raw materials, so this product is suitable for use in the most dairy quality programs.

An optimal function of the energy metabolism is important for high milk yields. The water-soluble vitamin biotin has key functions as a coenzyme in both glucose- and fat metabolism. At the same time it is important for the strength and structure of the hoof horn. A sufficient supply of biotin by feeding is necessary for high-performance cows, since the self-synthesis by the rumen microbes is often insufficient. This is especially the case when using high-performance rations that are rich in starch.

In practical feeding, unprotected biotin has been used almost in an unprotected form in mineral or compound feed so far. Scientific studies show, however, that unprotected biotin, which is given by feed, only reaches the small intestine to less than 50%. This is due to the microbial degradation in the rumen. In order to show positive effects on milk yield and hoof health in tests, biotin had to be fed in very high dosages so far. This has a significant effect on the price of the mineral- or compound feed.

In times of high prices for active ingredients due to general market developments or unforeseeable events, this often leads to the temporary elimination of biotin from the ration. Since the positive effects of biotin on hoof health and the reduction of lameness are crucially dependent on the duration of use, a temporary elimination often leads to the loss of the previously achieved positive effects. The use of rumen-protected biotin, on the other hand, significantly improves profitability, especially in times of high prices. This enables permanent use.

By matrix encapsulation via cryotechnology, **BEWI-FATRIX® Biotin** protects the contained biotin against early rumen degradation. This is the only way to ensure that sufficient amounts of biotin are effectively provided in the dairy cow's metabolism. Thanks to this special production process, the amount of biotin used in the feed can be significantly reduced. An effective amount of biotin can be fed by mineral- or compound feed with just 0.5 to 1 g of **BEWI-FATRIX® Biotin** per cow and day. This significantly improves the profitability of biotin use.

BEWI-FATRIX® Biotin provides the following characteristics as according to the producer:

- 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
- Rumen-stable fat matrix based on European raw materials; suitable for use in dairy quality programs

About BEWITAL agri

BEWITAL agri is specialised in the production of innovative feed that contributes to health and sustainability in modern livestock farming. The company is also involved in research and product development - its own and of its customers. With a specially developed process for encapsulating various active ingredients in a fat matrix, the company is a technology leader in its industry. The

know-how to convert scientific knowledge into solutions in a timely manner has made BEWITAL agri a strong partner for the feed industry and the specialist trade worldwide for more than 50 years.

In addition to BEWITAL petfood, the manufacturer of pet food and westrans, the logistics company, BEWITAL agri is one part of the BEWITAL group. The family-run company is headquartered in Südlohn-Oeding, Germany. Around 450 people are employed there.

In case of questions:

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