

BEWI-FATRIX® SynerG+: fatty acids in specific combination are able to inhibit gram positive bacteria in swine effectively

With BEWI-FATRIX® SynerG+, the feed specialty producer from Germany, BEWITAL agri GmbH & Co. KG, offers a matrix encapsulated combination product based on lauric acid, monoglycerides of short-chain fatty acids and flavorings (plant extracts and essential oils). By carefully selecting and combining the active substances, gram positive bacteria as streptococci and clostridia can effectively be harmed and with that noticeably reduce antibiotic treatment while improving animal health especially in piglet rearing.

Infections caused by gram positive bacteria as streptococcus or clostridia are one of the main reasons for antibiotic treatment in piglet rearing, leading to a significant increase of production costs. Legal concepts for antibiotic usage at the same time demand a reduction in livestock application. Many companies therefor focus on the application of alternative feed additives to reach this goal.

Products that are currently on the market consist almost solely of individual fatty acids or monoglycerides. Application therefor needs to be in higher concentrations due to their lower effectiveness. Synergistic effects can only be achieved through a targeted combination of different active ingredients.

Short and midchain fatty acids and their derivatives are renowned for their distinctive characteristics against gram positive bacteria. Synergistic effects can additionally be created by specifically combining the active ingredients carefully. In addition, special phytogetic products such as essential oils also show antimicrobial activity on bacteria, yeasts and fungi.

With this new, targeted combination of the active ingredients in **BEWI-FATRIX® SynerG+**, the feed supplement effectively inhibits gram-positive bacteria such as streptococci and clostridia and contributes to improved animal health on piglet rearing farms. An in vitro study shows that 0.1% of the **BEWI-FATRIX® SynerG+** product is sufficient to reduce the germ growth of *Streptococcus suis* and *Clostridium perfringens* by 50%.

Actual practical trials on piglet farms with proven influence caused by *Streptococcus suis* indicate more vital animals and a remarkable reduction of antibiotic treatments when **BEWI-FATRIX® SynerG+** was supplemented via the feed.

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

- Optimises rearing and improves the animal's health status
- Effectively inhibits gram-positive bacteria (G+), e.g. *Streptococcus suis* and *Clostridium perfringens*
- Targeted combination enables proven synergy effects (SynerG+ factor)
- Proven effect in vivo and in vitro
- The special production process of matrix encapsulation applying cryotechnology protects the active ingredients from early degradation in the stomach and enables a slow and continuous release of all active ingredients over the entire small intestine

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-owned company is headquartered in Südlohn-Oeding, Germany. Around 450 people are employed there.

In case of questions:

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