



Schaumann Agri Austria GmbH & Co. KG

A-2345 Brunn am Gebirge, Jakob Fuchs-Gasse 25 – 27

Phone: 0043 2236 31641 Fax: 0043 2236 31641-50

E-Mail: agriustria@schaumann.at

Commercial register number: FN 239992 f

Court of jurisdiction: Landesgericht Wr. Neustadt

UID-Nr.: ATU 57564022

Bank account: Bank Austria Creditanstalt AG

Account number: 518-54-090-201 Bank code: 12000

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Aminotrace

Innovative development of organically bound trace elements

Trace elements, as the name suggests, are needed in very small quantities for the normal functioning of the human or animal body. High yielding animals, comparable to professional sportsmen, need extensive amounts of highly-available trace elements. The availability of these trace elements in the mammalian alimentary channel can be severely deteriorated by the antagonistic effects produced by the presence of some feed components and/or elements: For example, it is very well known that Molybdenum, Sulfur or Iron can seriously limit the availability of copper.

Over the past several years, glycinates, which are a source of trace elements where a metallic ion is bound to an organic glycin, in its chelated form, are becoming more and more important in animal nutrition. It has been verified that a significant improvement of all production figures in animal trials using glycinates due to their better absorption qualities occurs, compared to metallic trace elements bound with non-organic forms.

From a chemical point of view, glycinate trace elements are a complex chemical compound consisting of one trace element ion bound to two molecules of glycin (a derivative of the amino acid glycine). Presently, there are four trace elements (Iron, Zinc, Copper and Manganese) chemically bound as a complex chelate compound with glycin.

In previous efforts, the production of organically bound trace elements was made exclusively through very expensive chemical processes consisting of several phases. The final products, chelate compounds, were inconsistent in quality, unstable depending on the producer, and very limited in performance. Thus, the Schaumann Company was never concerned, in spite of market pressure, to introduce this kind of production component in its own products in larger scale.

However, with close cooperation with the Technical University in Clausthal, Germany and the ISF Research Center of the Schaumann Company, a completely new, patented production process of glycinate trace elements was developed and brought to a stable production level, as yet unique to the SCHAUMANN range of products.

The following compounds have, to date, been synthesized:

Copperbisglycin – Chelate – Hydrate

Zincbisglycin – Chelate – Hydrate

Manganebisglycin – Chelate – Hydrate

Ironbisglycin – Chelate – Hydrate

Through various chemical and physical proof and measurement methods, it is possible to confirm the production of high quality glycinate trace elements, as well as verifying the existence of complete complex organic bonds, almost unknown in similar, very expensive products on the market.

These products, now included in the already superior SCHAUMANN standard products, are securing additional advantages for our clients in both pig and cattle production.

Points of activity in pig production:

- Growth potential
- Fertility
- Active immunity
- Stress stability
- Balance of metabolism
- Feed efficacy
- Content of heavy metals in feces
- Feed conversion
- Claw health
- Stability of fundament

Points of activity in cattle production:

- Fertility
- Growth potential
- Balance of metabolism
- Feed conversion
- Stability of rumen
- Udder health
- Immunity
- Hoof health
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