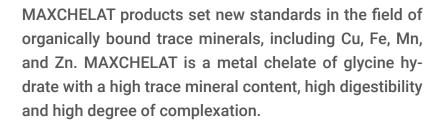


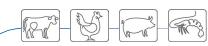
HIGH-QUALITY METAL CHELATES



INNOVATIVE PRODUCTION PROCESS

MAXCHELAT are organic metal chelates produced with an innovative technology using an Excentric Vibrating Mill. The trace minerals in MAXCHELAT have a high metal content (see F1) and modified physiochemical properties. The metal ions (Cu, Fe, Mn, Zn) in MAXCHELAT are precomplexed with glycine increasing the trace mineral digestibility.

The great bioavailability of MAXCHELAT promotes animal performance and leads to a lower excretion of heavy metals into the environment.



CHARACTERISTICS

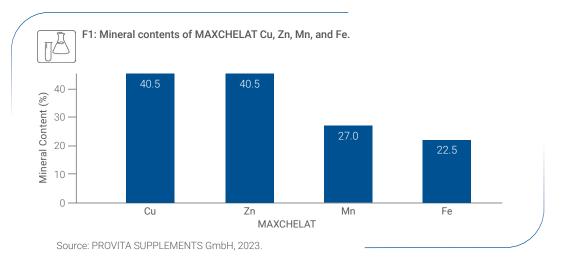
- High metal content
- High degree of complexation
- Environmental friendly

APPLICATION BENEFITS

- Highly bioavailable
- Uniform, free-flowing particle

A STABLE MOLECULE DELIVERS PERFORMANCE BENEFITS

MAXCHELAT have a stable molecular structure that protects from antagonistic interactions with other elements in the digestive tract increasing the bioavailability. Because of the high bioavailability of MAXCHELAT, the dietary trace element content can be reduced compared to inorganic sulfates (see F2).









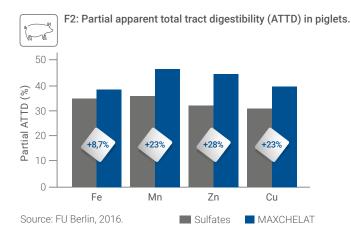
Animals: Piglets (n=15), weaned at 25 d of age

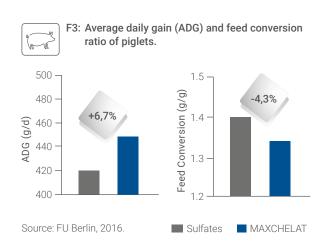
Treatments: 1. Depletion period (d 25-39): Cu, Fe, Mn, Zn below requirements

2. Repletion period (d 40-48): Cu, Fe, Mn, Zn to meet requirements

Test products: Cu, Fe, Mn, Zn as sulfate or MAXCHELAT

Methods: Partial apparent total tract digestibility, performance





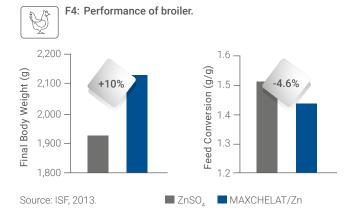
The partial apparent total tract digestibility of Cu, Fe, Mn, and Zn was 23, 9, 23, and 28% greater for MAXCHELAT than sulfates. In addition, average daily gain was numerically greater and feed conversion ratio was numerically lower for MAXCHELAT than for sulfates. **MAXCHELAT Cu, Fe, Mn, Zn were greater digestible than sulfates and showed a greater performance in weaned piglets.**

BETTER SUPPLY LEADS TO GREATER PERFORMANCE

Animals: Broiler (Ross 308; 35-d trial; n=50); starter (d 1-14), grower diet (d 15-35)

Treatments: (1) ZnSO₄

(2) MAXCHELAT/Zn



The final body weight was numerically greater for MAXCHELAT/Zn compared to sulfate. In addition, the feed conversion ratio was numerically lower for MAXCHELAT/Zn than sulfate. MAXCHELAT/Zn supported broiler performance probably by a greater Zn bioavailability than inorganic sulfates.

