Feed chelates are microelement organic compounds effectively supplementing deficiency of elements, ensuring correct development of the organism and improving animal health.

- Very high availability.
- Perfect mixability.
- Stability over a broad range of pH.
- Manufactured according to proprietary modern technology.
- Manufactured from own raw materials.
- High quality confirmed by global laboratories.

**Vitamin protection**

During the chelation process, mineral particles in Chelmax chelates are neutralized (they do not have electric charges) thanks to which they do not deactivate vitamins: C, E and B group vitamins. Additionally, as a result of bonding these particles to amino acids, the antagonisms between minerals added in the form of Chelmax chelates disappear.

**Efficacy**

Chelmax chelates are absorbed by the organism in the way typical of amino acids with which microelements are bonded. This largely expedites and facilitates assimilation of the microelements supplied and supports their delivery to the place where they are needed most.

**High availability**

Chelmax chelates are characterized by total availability, which ensures that practically the whole dose of the microelement supplied is effectively utilized.

**Ecology**

Increased utilization of microelements reduces their excretion by animals as a result of which application of chelates has significant positive impact on the natural environment.

The above features make it possible to reduce the dose of the microelement, simultaneously increasing its uptake by the animal’s organism and thus significantly improving production results.
**Chelmax L-Chelmax**

**Efficacy of Chelmax chelates:**

**Pigs:**
- decreased piglet mortality
- lower susceptibility to infections and diseases
- higher bone density and stability
- increased sow fecundity and fertility
- limited cannibalism
- improved meat quality
- reduced susceptibility to stress.

**Cattle:**
- lower susceptibility to infections
- reduced number of somatic cells in milk
- better skin and hair condition
- increased hoof hardness and elasticity
- shorter calving intervals
- increased fertility
- regulated cation-anion balance in the rumen
- reduced metabolic diseases.

**Efficacy of Chelmax chelates:**

**Poultry:**
- harder egg shells
- lower susceptibility to infections and diseases
- higher egg laying rates
- increased fertility
- reduced susceptibility to stress and cannibalism
- lower broiler death rates.

**Effects of zinc, copper, manganese and iron deficiencies in animal organism**

**ZINC (Zn) deficiency** – parakeratosis, mat hair, skin diseases, somatic cells in milk, hoof diseases, ovary atrophies leading to difficulties with impregnation and disorders of the ovulation cycles, leading to higher incidence of infectious diseases.

**COPPER (Cu) deficiency** – limited hemoglobin synthesis, poor growth, death of embryos, spermatogenesis disorders, poor bone formation, skin depigmentation, weak formation of connective tissue (tendons).


**IRON (Fe) deficiency** – anemia among piglets and calves, decreased immunological resistance, decreased protection of tissues against free liberals, disorders of protein digestion with participation of pancreas enzymes.

<table>
<thead>
<tr>
<th>Item</th>
<th>Chelmax Zn-10</th>
<th>Chelmax Cu-10</th>
<th>Chelmax Mn-10</th>
<th>Chelmax Fe-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU registration no.</td>
<td>E6</td>
<td>E4</td>
<td>E5</td>
<td>E1</td>
</tr>
<tr>
<td>Element</td>
<td>Zn-10%</td>
<td>Cu-10%</td>
<td>Mn-10%</td>
<td>Fe-10%</td>
</tr>
<tr>
<td>Protein</td>
<td>Min 30%</td>
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<th>Item</th>
<th>Chelmax Zn-15</th>
<th>Chelmax Cu-15</th>
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**How Chelmax chelates are absorbed**

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We enhance nature