



Natural selective ion exchanger and nano-minerals as supplementary feed for pets and farm animals

Why are common diseases in pets?

The use of growth stimulators, feed antibiotics, and hormones and so on, solves stress reactions and weakens the immune system from the animals. Plant food which was produced in the nature is burdened by ground and air pollutant.

Also animals suffer from diseases caused by civilization, like diseases of the digestive tract, disease of the metabolism caused by chronic stress and musculoskeletal disorders.

Traditional medicine does not always bring the desired effect.

Also antibiotic is disaffected.

New concepts and new methods of treatment and food are demand.

Mineral supplements for pets and farm animals:

According to certain and scientific findings, every metabolism process needs the presence and immediate action from mineral nutrients to be perfect.

Humans and animals suffer from mineral deficiencies, but also partly from unilateral mineral income.

Consequently, pets and farm animals need minerals in their food.

The natural zeolith is perfect for those animals.

The natural zeolith can act as an ion exchanger and as a sorbitol.

Preparations which have natural ion exchanger and other minerals combined are called probiotics. Mineral metabolism regulation, immune system, micro flora and to improve, rebuild and conserve the health of the animals is the goal from the probiotics.

Minerals are the basic materials of life, through them vitamins, enzymes, hormones and the entire metabolic processes are made possible.

A large part of the minerals is essential for humans and all animals, ie they must necessarily be fed, and their absence causes deficiency diseases.

The mineral homeostasis (balance) is important for maintain the health of the organism.

We can assume that humans and all animals are built up of the same elements how our planet, the atmosphere and everything on earth.

But if one or several elements are missing, the effect will be deficiency symptoms and different diseases.

Essential minerals are: calcium, magnesium, silicon, iron, molybdenum, Zinc, selenium, chloride, potassium, sodium, phosphorus, iodine, copper, manganese, zinc, cobalt, chromate, tin, fluorine and nickel.

Silicon is an unknown micro element. But nowadays we know that silicon is an important base for mineral metabolism.

Silicon is also important for:

- growth
- development of connective tissue
- fitting calcium into the bone tissue
- inclusion in the genetic apparatus

Most minerals, which are fed with the feed, will be excreted.

The problem is that the minerals are not able to pass the metabolism through the blood.

The activation from enzymes or the uptake of bioactive substances by surface-active substances is called adsorption (biochemical).

Adsorptions are substances with a large surface enlarging effect, for example: activated carbon, alumina, dispersed silicon, diatomaceous, kaolin, and zeolite.

Silicon and silicon-bearing natural zeolite are able to increase the surface tension in the intestine by 300 times.

What are selective ion exchangers?

The replacement of an ion form with another ion form (biological metabolism) is called ion exchanger.

Nature ion exchangers are insoluble substances from the body and will be excreted from the body, but they are able to bind pollutants such as toxins.

The withdrawn substances are replaced by minerals.

In this way the homeostasis of the organism, especially of mineral metabolism, will be maintained and restored. Such a property has the zeolite.

In these way sensitive organ systems, eg Brain, nervous system, endocrine system, immune system, liver, kidneys, e.g. will be protected from toxic damages and their resistance due harmful pathogenic effects.

(Health of the animals)

What is "Nano - silicon"?

(1 nano meters = 0.000000001 meters)

Body fluids have colloidal characters. All life processes take place in the colloidal Phase. The body's natural colloids are very adequate colloidal mineral compounds, such as the hydrophobic colloidal silicon dioxide, also known as colloidal silica gel. The particles are needed in the smallest possible form (3 to 10 nano meters) for the absorption.

The nano – silicon effect:

- increased water connectivity of proteins
- regulates the acid-base-protein-homeostasis
- prevents the dehydration from aging tissue

Equinano-products contain silica (finely divided and biologically active form = nanoparticles) Because of the large surface is the penetration into the tissue and the bioactive interaction between the animal metabolism and the individual silicon particles considerably easy for the nano-silicon.

The intestinal wall is difficult to penetrate for many minerals, but nano-silicon can help those minerals by penetrating.

Functions of silicon in the body

Nano silicon (biologically active form) is essential for the health of humans and animals and just as important as vitamin C. The high binding capacity of nano silicon and his large surface tension which is outwardly and inwardly effective, enable purifying effect (excretion of toxic, bacterial, viral damage factors), regulating function (Maintaining the internal environment), regenerative function (eg bone, cartilage, tendons, Connective tissue), activating, stimulating function (metabolism) and a protective function (immune system)

Functions of calcium in the organism

Calcium controls the conduction in nerve and muscle cells.

It contributes to the stabilization of the cell membrane, plays a role in transmitter release and is in various enzyme reactions as a cofactor active. Calcium is vital for the blood clotting. Calcium has functions like anti-inflammatory, anti-allergy and blood vessel-sealing.

Function of magnesium in the organism

This mineral is an activator for more than 300 enzyme systems. In fact, magnesium is at all Processes involved which have to do with the energy metabolism in the human body.

Magnesium can reduce the calcium influx in the heart muscle cell, help to inhibit the catecholamine (stress reduction), and can reduce the cardiac oxygen consumption.