



## Mineral Feeds

Intensive agriculture has caused continuous micronutrient deficiency in soils and field crops. The European Union continuously decreases the maximum level of micronutrients, even though the optimal function of vitamins and enzymes would need further and more effectively uptakeable micronutrients.

The conventional inorganic premixes are not able to supply the necessary micronutrients. Consequently, the lowering tendency of micronutrient levels cause the emergence of pharmaceutical grade in animal breeding such as immune system problems, stress, allergy, cancer, viruses etc. The constantly weakened immune system contributes more and more to hygienic and veterinary problems as well as the rise of medicine costs.

The Food Safety Scientific Committee of the European Union declared the following aim: "the application of microbe killing ingredients (antibiotics) as regulators or growth stimulators must be stopped continuously. Nevertheless necessary time must be supplied to introduce the so called alternative ingredients." (EU 1831/2003 order)

**Scientific publications and human medical results are destined to make natural humic substances relevant ingredients for " alternative veterinary medicinal products " in the near future. Natural humic substances are complex and multifunctional natural ingredients without side effects and harmful residues. Their importance - as immune system stimulators, antiviral molecules, detoxification agent and organic chelates improving mineral uptake - focus the attention on these molecules.**

Our products are the result of several years of research and technology development. The raw material of our products is of Hungarian origin which is medical quality source of natural humic substances. The quality and production of our products are ensured by ISO 9002 and HACCP system.



## Vitapol® Suspension

**It can be mixed into the milk or milk replacer of calves or poured on the feed. For piglets serve on a tray on the first week. Strengthens the immune system and prevents diarrhea.**

### Composition:

Moisture:	84,00 %
Sodium (Na):	0,02 %
Crude ash:	5,00 %
Calcium (Ca):	0,70 %
Magnesium (Mg):	0,08 %
Phosphorus (P):	0,02 %
Humic acids:	min. 8,00 %

Iron (Fe):	1800 mg/kg
Manganese (Mn):	24 mg/kg
Zinc (Zn):	8,0 mg/kg
Selenium (Se):	1,6 mg/kg
Molybdenum (Mo):	0,4 mg/kg
Cobalt (Co):	0,4 mg/kg

### Target species:

calves, piglets

### Indications for use:

Vitapol® Suspension is excellent for newborn calves and piglets. It prevents and stops diarrhea, and helps to create a healthy intestinal system. Based on farm experience, it can stop diarrhea of calves in 5-10 days. It contains minerals and micronutrients in an organic humic acid complex form, so they are easily absorbed in the digestive tract of animals. If used for prevention, you will have healthier and more resistant young animals.

### Dosage:

the average dosage is 100 ml/calf/day on the first 30 days. For piglets, 100 ml/litter/day on the first two weeks.

### Packaging:

20 kg bucket

# HUMIC ACID BASED FEED SUPPLEMENTS



Vitapol® Pulvis

## Vitapol® Pulvis

**Only contains natural materials. Binds toxicants and chemical residues. Enhances stress endurance.  
Its use results in a faster weight gain and in a healthier stock. Decreases mortality.**

### Composition:

Moisture:	max.20,00 %
Calcium (Ca):	5,50 %
Sodium (Na):	0,10 %
Iron (Fe):	10 000 mg/kg
Manganese (Mn):	130 mg/kg
Copper (Cu):	10 mg/kg
Humic acid	min.40,00 %

Crude ash:	min. 30,00 %
Magnesium (Mg):	0,45 %
Phosphorous (P):	0,10 %
Zink (Zn):	80 mg/kg
Selenium (Se):	5 mg/kg
Molibdenium (Mo)	3 mg/kg
Cobalt (Co)	3 mg/kg

### Target species:

live stock

### Indications for use:

Vitapol® mineral feed exclusively contains natural raw materials, natural acids, minerals and micro elements. It contains minerals and micronutrients in an organic humic acid complex form, so they are easily absorbed in the digestive tract of animals, thus promoting the digestibility of feed and a better specific feed consumption. Humic acids as natural agents, are possible alternatives of antibiotics and chemotherapeutic preparations in many ways. Thanks to its unique composition Vitapol® has a positive effect on every organism, it strengthens the immune system, and it helps the profitability of farming.

### Dosage:

The average dosage is 1 % of the daily feed, 10 kg/t.

### Packaging:

25 kg paper bag

# HUMIC ACID BASED FEED SUPPLEMENTS



IMMUNOBEE és FULVOBEE

## Immuno-BEE, Fulvo-BEE

Strengthen the immune system of honey bees, replenishes mineral and trace elements. The natural antibacterial, antiviral and fungicide effects help the colonies in the battle against pathogens and stress factors.

### Composition:

#### Immuno-BEE

Humic acid	7,0 %
Calcium	0,05 %
Magnesium	0,1 %
Sodium	0,3 %
Potassium	1,2 %
Phosphor	0,6 %
Iron	190 mg/kg
Zink	2 mg/kg
Copper	0,5 mg/kg
Manganese	3 mg/kg
Cobalt	0,1 mg/kg
Molybdenum	0,1 mg/kg
Selen	0,2 mg/kg

#### Fulvo-BEE

Humic acid	6,0 %
Calcium	0,2 %
Magnesium	0,05 %
Sodium	0,5 %
Potassium	2,2 %
Phosphor	0,01 %
Iron	800 mg/kg
Zink	40 mg/kg
Copper	4 mg/kg
Manganese	30 mg/kg
Cobalt	1 mg/kg
Molybdenum	1 mg/kg
Selen	0,2 mg/kg

### Target species:

bee

### Indications for use:

#### Immuno-BEE

Mineral fodder, administer in sugar syrup or alone. Use it in spring and summer. For weak colonies, continuous feeding of Immuno-BEE is proposed.

### Dosage:

#### Immuno-BEE

1000 ml/100 liters of 50% sugar syrup. It can also be served alone on a saucer.

### Packaging:

1 l plastic bottle

#### Fulvo-BEE

Mineral fodder, administer it in water. Use it in spring and summer. For weak colonies, continuous feeding of Fulvo-BEE is proposed.

#### Fulvo-BEE

1000 ml/100 liter water