

neocuprexan

**over**<sup>®</sup>  
VETERINARY MEDICINE

Minerals are nutrients that are essential for the normal functioning and correct development of the bovine organism throughout its productive stages. Among them, we can mention copper and zinc, which play a vital role in the enzymatic, immunological and regulatory functions of the cellular activity.

### **MULTIPLE DEFICIENCY... SINGLE SOLUTION**

Since mineral deficiencies coexist in intensive production systems, it is necessary to multiply efforts to counteract their impact.



**NEOCUPREXAN** is an injectable formulation that combines five essential minerals.

## What is HYPOCUPROSIS?

Copper depletion or HYPOCUPROSIS is the result of an inadequate concentration of copper in the animal's organism. This greatly affects the livestock's health and productivity.

## Which are its clinical signs?

Anemias.

Infertility, loss of estrus and abortions.

Symmetrical discoloration and hair keratinization.

Bone fragility and joint deformation.

Severe diarrhea.

Immunodepression.

Predisposition to infectious diseases.

Abomasal ulcers.

Decreased dairy production.

Decreased growth and appetite.

Weightloss.

Sudden death.

## COPPER

Copper is a micromineral involved in enzymatic activities. It favors the generation of energy, the synthesis of collagen and the normal pigmentation of skin and hair. In addition, it plays an important role in fixing the iron for the hemoglobin synthesis.

## ZINC

Zinc is a catalytic micromineral, necessary at a structural level, which regulates the cellular activity. It acts as a cofactor of more than 300 enzymes involved in both the synthesis of nucleic acids and the protein metabolism.

The deficiency of this element poses a high risk for the animal production, since it can cause loss of appetite, decreased feeding efficiency, less resistance to infections, a drop of the reproductive rate, hyperkeratosis and a greater incidence of foot injuries.

## MANGANESE

Manganese is an important element involved in the functioning of the central nervous system and the bone formation. It is also essential in animal reproduction.

The lack of this mineral can reduce bone strength and cause bone malformation, slow growth and fertility abnormalities.

## SELENIUM

Selenium is a micronutrient that is indispensable for maintaining the cell membranes and developing the organism vital processes.

The lack of selenium causes a decrease in the neutrophils' bactericidal activity, alters the immune function, and adversely affects the reproductive behavior and the fats metabolism.

## IODINE

Iodine is a micromineral that is fundamental for the synthesis of the thyroid hormones that regulate the animal's energy, reproductive metabolism and growth.

Iodine deficiency can seriously affect the animal's development, leading to weakness, decreased milk production, loss of estrus and abortion.



It prevents the deficiency of copper, zinc and other microelements.

It improves the breeding animal's state.

It helps to improve fertility in males and females.

It prevents and controls oxidative stress.

It favors the development in rebreeding and fattening animals.

**neocuprexan**







# neocuprexan

**DESCRIPTION:** mineralizing supplement.

**FORMULA:** every 100 ml, it contains:

Metallic copper (as edetate).....	1.5 g
Metallic zinc (as edetate) .....	5.00 g
Manganese (as gluconate) .....	1.00 g
Selenium (as sodium selenite).....	0.50 g
Iodine (as iodide) .....	0.038 g
Formulation agents .....	q.s.

**SPECIES TO WHICH IT IS INTENDED:** bovines.

## INDICATIONS OF USE:

**Main:** preventive treatment against the deficiency of copper, zinc, selenium, iodine and manganese in bovines.

**Ancillary:** it improves the breeding animal's state and favors the development of rebreeding and fattening animals. It helps to improve fertility in males and females. It prevents and controls the oxidative stress in cases giving rise to free radicals. It is recommended to be administered during pregnancy and lactation, given the importance of an adequate supply of vitamins and minerals during this stage.

## DOSAGE:

**Young bovines.** Calves up to 200 kg: 1 ml per each 50 kg.  
**Rebreeding and adult bovines:** 1 ml per each 100 kg.  
**Recommended dose:** steers and heifers 4 ml. Cows 5 ml. Bulls 6 ml.

**ADMINISTRATION:** it is injected subcutaneously.

**PRESENTATION:** the product comes in bottles containing 500 ml each.

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