

For Veterinary Use Only.



Hummasol-K[®]

Solution for Injection

Veterinary Systemic Metabolism Regulator

COMPOSITION:

Hummasol-K Solution for Injection is a clear, colorless, odorless, fluid solution containing 200.0 mg calcium gluconate, 16.0 mg magnesium gluconate and 2.19 mg caffeine monohydrate in each ml.

PHARMACOLOGIC PROPERTIES:

Hummasol-K Solution for Injection is a balanced, sterile, pyrogen-free mineral formulation for injection appropriate for parenteral administration that is developed for use as Ca treatment supporter and cardiac and respiratory stimulator by being combined with caffeine in order to meet Ca and Mg needs of domestic animals, and to resolve pathological disorders caused by deficiencies. Ca and Mg are two critical elements acting in acid-base buffer system. Ca is an important ion of hydroxyapatite in bones. It also plays a role in transition of neural stimulation, contraction of muscles, intracellular communication and coagulation of blood.

Mg is the second most cation found in intracellular fluid. Mg is the essential cofactor of many enzymes (phosphotransferase). Mg plays an important role in neuro-chemical conduction, in central nervous system and in cardiomuscular system. It plays a vital role in alternate togetherness of intracellular structures and macro-molecular binding of mRNA.

Caffeine is an effective central nervous system stimulant. It also has a stimulating effect on respiratory system and circulatory system. It directly stimulates cardiac muscles and therefore increases the contraction strength of myocardium. Accordingly, operation capability of the heart and cardiac output in peripheral and coronary veins are increased. Caffeine causes an increase in blood flow in kidneys and provides formation of more urine by stimulation secretoric cells, therefore posing a diuretic effect.

AREA OF USE/INDICATIONS:

It is used as a protective and supportive agent in treatment of hypocalcemia and hypomagnesemic tetany in cattle, milk tetany in calves, tetany and azoturia cases in horses, eclampsia in dogs, multi directional calcium deficiencies in all domestic animals and consecutively developed rachitism, osteomalasia cases, bone cracks and fractures, tooth decays, serum disease, allergy and anaphylactic disorders, urticaria, nutritional disorders, calcium and phosphor balance disorders, bleeding and collapse, food poisonings, toxic animal bites and stings, and poisonings due to DDT and other chlorined hydrocarbon insecticides.

USAGE AND DOSAGE:

It is used through intravascular, intramuscular or subcutaneous administration at the dose recommended by veterinary surgeon in protection and treatment of metabolic disorders induced by calcium and magnesium deficiencies. **Hummasol-K Solution for Injection** can be administered in treatment of acute hypocalcemia cases in cattle, horses, sheep, goats, cats and dogs by slow intravascular (IV) infusion with a dose of 1 ml/kg LW;

Horse : 250-500 ml

Cattle : 250-500 ml

Sheep-Goat : 50-100 ml
Calf-Foal : 50-100 ml
Lamb-Yean : 5-50 ml
Cat-Dog : 5-50 ml.

Some of the dose can be administered intravascularly, and the remaining part can be given subcutaneously.

UNDESIRE/SIDE EFFECTS

No side effects were seen in the literature unless it is administered at high doses and through fast intravascular administration.

DRUG INTERACTIONS:

Calcium salts may cause an increase in cardiac arrhythmia if used in combination with digitalis glycosides. Orally administered calcium and magnesium cause a decrease in absorption and activity of tetracyclines. Ciprofloxacin causes an increase in blood level of caffeine.

SYMPTOMS OF OVERDOSE, PRECAUTIONS AND ANTIDOTE:

Intravascular administrations at high doses may cause death as a result of flaccid paralysis, cardiac rhythm disorders, and cardiac or respiratory arrest caused by hypercalcemia and hypermagnesemia. When used at high doses caffeine may cause restlessness, insomnia, anxiety and convulsions. Respiration accelerates and vomiting and diarrhea can be observed as well as bradycardia and extra systoles. Intravascular administration should be carried out slowly by controlling cardiac rhythm as a precaution.

WARNINGS ON DRUG RESIDUES IN FOOD:

Withholding Period (WHP): is "0" days.

GENERAL WARNINGS:

Keep out of reach of children. Consult your veterinary surgeon before using and in case an unexpected effect is observed.

PRECAUTIONS TO BE TAKEN BY THE USER AND WARNINGS FOR VETERINARY SURGEONS:

Particularly in cases of hypocalcemia and hypomagnesemia, cardiac rhythmic disorders and cardiac fibrillation may occur due to sudden calcium and magnesium load. Therefore, intravascular administration should be carried out slowly in a controlled manner so as not to cause hypercalcemia or hypermagnesemia.

STORAGE CONDITIONS AND SHELL LIFE:

Shell life is 3 years from production date at room temperature. Protect from light. Store in a dry and cool place.

COMMERCIAL PRESENTATION FORM INDICATING THE QUALITY AND QUANTITY OF THE PACKAGE:

Offered for sale in 100 ml cardboard box packages and in 250 ml amber colored vials.

PLACE AND CONDITIONS OF SALE:

Sold with Veterinary Surgeon's prescription in pharmacies and veterinary surgeries (VSP).

APPROVAL DATE OF PACKAGE INSERT: 16.09.2003

MINISTRY OF AGRICULTURE AND RURAL AFFAIRS MARKETING AUTHORIZATION DATE AND NO:
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NAME AND ADDRESS OF MARKETING AUTHORIZATION OWNER:

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NAME AND ADDRESS OF MANUFACTURER COMPANY:

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