

VITA QAS

NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

1. COMPOSITION

Each ml contains: all-rac- α -tocopheryl acetate (vitamin E) 10 mg, sodium chloride 50 mg, magnesium chloride 8 mg, potassium chloride 20 mg, calcium chloride 2 mg, glutamic acid 1.37 mg, aspartic acid 0.89 mg, arginine 0.24 mg, cysteine 0.70 mg, lysine 0.46 mg, histidine 0.22 mg, glycine 0.76 mg, serine 0.46 mg, alanine 0.65 mg, tyrosine 0.46 mg, threonine 0.30 mg, phenylalanine 0.32 mg, valine 0.24 mg, methionine 0.24 mg, leucine 0.70 mg, isoleucine 0.24 mg.

2. DESCRIPTION

VITAQAS is a nutritional supplement consisting in a well-balanced combination of vitamin E, amino acids and minerals.

VITAQAS contributes to the well-being of the animal and the maintenance of the levels of vitamins, minerals and amino acids necessary for the good development of the animal.

VITAQAS boosts the immune system of the animal giving better chances to the animal for recovering from situations as transport, vaccination, diseases or extreme weather conditions stressing on vitamin E, amino acids and electrolyte re-imbalance.

Vitamin E: the all-rac- α -tocopheryl acetate is a natural antioxidant that protects the polyunsaturated fatty acids from oxidation, avoiding the formation of free radicals and peroxides that may cause degeneration and cellular destruction.

Minerals: sodium chloride, magnesium chloride, potassium chloride, calcium chloride.

Magnesium is an essential mineral, cofactor of enzymes, and it is involved in more than 300 physiologic pathways, including energy production, nucleic acid and protein synthesis, ion transport, and also has structural functions, among others.

Potassium and sodium are essential dietary minerals and electrolytes. Normal body function depends on tight regulation of potassium and sodium concentrations both inside and outside the cells. Potassium is the main cation in the intracellular fluid, while sodium is the main extracellular cation. The concentration differences between potassium and sodium across cell membranes create the membrane potential, which is maintained by ion pumps in the cell membrane, especially the sodium, potassium-ATPase pumps.

The activation of sodium, potassium-ATPase needs sodium and potassium. Potassium is also required for the activity of pyruvate kinase.

Calcium: Calcium is an element that plays a fundamental role in the physiology and biochemistry of organisms and the cell. The most important functions in which it participates are: configuration of the bone structure; maintenance of the cellular structure; in nerve transmission; in muscle contraction; in cardiac function; the permeability of cell membranes; as a cofactor of numerous



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enzymes and in the cascade of blood coagulation, among others functions including milk formation. Hypocalcaemia is frequent in atony (milk fever) in cows. Calcium and magnesium need to be balance for the correct contraction of the muscle and nervous impulse. In the case of paresis, hypoglycaemia also has its role.

Chloride: The chloride ion helps maintain osmolarity and actively participates in acid-base regulation.

Amino acids: amino acids are required for the maintenance of body tissues and for the growth and development of the animal. Essential amino acids are supplied in VITAQAS: glutamic acid, aspartic acid, arginine, cysteine, lysine, histidine, glycine, serine, alanine, tyrosine, threonine, phenylalanine, valine, methionine, leucine and isoleucine.

3. RECOMMENDED USE

- Prevention or treatment of amino acids deficiencies in farm animals.
- Prevention and treatment of stress caused by vaccination, diseases, transport, high humidity, high temperatures or extreme temperature changes.

4. CONTRAINDICATIONS

None described.

5. ADVERSE EFFECTS

None described.

6. SPECIAL PRECAUTIONS

None described.

7. ADMINISTRATION

Oral use in drinking water.

Add 1 - 2 ml per 4 litres of drinking water.

8. TARGET SPECIES

Poultry, bovine and ovine.

9. WITHDRAWAL PERIOD

Zero days.

10. STORAGE CONDITIONS

Store below 30 °C.

Protect from light.

11. SIZES

1 L or 5 L



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