

# QASDEK

## NUTRITIONAL SUPPLEMENT IN ORAL POWDER

### 1. COMPOSITION

Each g contains: vitamin A 9,000 IU, vitamin D<sub>3</sub> (cholecalciferol) 1,125 IU, nicotinamide (vitamin B<sub>3</sub>) 20 mg, calcium pantothenate (vitamin B<sub>5</sub>), 10 mg, vitamin B<sub>2</sub> (riboflavin) 5 mg, vitamin E (all-rac- $\alpha$ -tocopheryl acetate) 2 mg, vitamin K (menadione sodium bisulfite) 2 mg, vitamin B<sub>1</sub> (thiamine hydrochloride) 1.5 mg, vitamin B<sub>6</sub> (pyridoxine hydrochloride) 0.4 mg vitamin B<sub>12</sub> (cyanocobalamin) 15 mcg.

### 2. DESCRIPTION

**QASDEK** is a nutritional supplement consisting in a well-balanced combination of vitamins A, D<sub>3</sub>, E, C and vitamins of the B complex group: vitamins B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub>, B<sub>5</sub>, B<sub>6</sub> and B<sub>12</sub>. **QASDEK** contributes to the well-being of the animal and the maintenance of the levels of vitamins necessary for the good development of the animal, including young, convalescence, weak or orphan animals. **QASDEK** 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 fat-soluble vitamins (A, D<sub>3</sub>, E and K) and B-group vitamins re-imbalance. **QASDEK** prevents deficiency of vitamins fat and water soluble, and prevents rickets and infertility in breeders due to a low vitamin levels.

**Vitamin A:** vitamin A stimulates the production and proliferation of the cells producing mucus. It has a major role in the visual process. It is

necessary for the spermatogenesis in males and it is involved in maintaining pregnancy. It stimulates the osteoblastic activity and the bone growth.

**Vitamin D<sub>3</sub>:** vitamin D<sub>3</sub> is obtained in the skin by reaction of the 7-dehydrocholesterol with the UV rays. It intervenes in the metabolism of calcium and phosphorous, increasing the absorption of calcium in gut and renal tubules, and it is necessary for the mineralisation of the bone matrix that grows in the epiphysis.

**Vitamin E:** the all-rac- $\alpha$ -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.

**Vitamin K:** vitamin K is essential for the functioning of several proteins involved in physiological processes that encompass, but are not limited to, the regulation of blood clotting. Although vitamin K is a fat, the body stores very small amounts that are rapidly depleted without regular dietary intake. Vitamin K is also involved in skeletal formation and prevention of soft tissue calcification in collaboration of vitamin D<sub>3</sub>.

**B vitamins** are a class of water-soluble vitamins that play important roles in cell metabolism. They are chemically non-related compounds



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**Vitamin B<sub>1</sub> (thiamine):** it is a coenzyme in the catabolism of sugars and amino acids.

**Vitamin B<sub>2</sub> (riboflavin):** it is a precursor of cofactors called FAD and FMN, which are needed for flavoprotein enzyme reactions, including activation of other vitamins.

**Vitamin B<sub>3</sub> (niacin, nicotinamide):** it is a precursor of coenzymes called NAD and NADP, which are needed in many metabolic processes.

**Vitamin B<sub>5</sub> (pantothenate):** it is a precursor of coenzyme A and therefore needed to metabolize many molecules.

**Vitamin B<sub>6</sub> (pyridoxine):** it is a coenzyme in many enzymatic reactions in metabolism.

**Vitamin B<sub>12</sub> (cyanocobalamin):** It is a coenzyme involved in the metabolism of every cell of the human body, especially affecting DNA synthesis and regulation, but also fatty acid metabolism and amino acid metabolism.

### 3. RECOMMENDED USE

- Prevention or treatment of vitamin deficiencies in farm animals.
- Prevention and treatment of stress caused by vaccination, diseases, transport, high humidity, high temperatures or extreme temperature changes.
- Supplement during gestation or lactation.

### 4. CONTRAINDICATIONS

Do not exceed the dosage in gestation.

### 5. ADVERSE EFFECTS

None described.

### 6. SPECIAL PRECAUTIONS

Do not give together with other products containing vitamins A or D.

### 7. ADMINISTRATION

Powder for use in drinking water.

Poultry and rabbits: 1 g / 4 L drinking water.

Ovine: 1 g / kg b.w. / day for 1 - 2 days.

Bovine: 10 - 15 g /animal / day, for 1 - 2 days.

Treatment may be repeated in 2 weeks-time.

### 8. TARGET SPECIES

Poultry, cattle, sheep and rabbits.

### 9. WITHDRAWAL PERIOD

Zero days.

### 10. STORAGE CONDITIONS

Store below 30 °C.

Protect from light.

### 11. SIZES

500 g



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