

# AD3ECK QAS

## NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

### 1. COMPOSITION

Each ml contains: vitamin A 20,000 IU, vitamin D<sub>3</sub> 5,000 IU, vitamin E 15 mg, vitamin C 3.3 mg, vitamin K 1.6 mg, sodium chloride 5 mg, potassium chloride 3 mg.

### 2. DESCRIPTION

**AD3ECK QAS** is a nutritional supplement consisting in a well-balanced combination of vitamins A, D<sub>3</sub>, E, C and K. **AD3ECK QAS** 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. **AD3ECK QAS** boosts the immune system of the animal giving better chances to the animal for recovering from situations as transportation, vaccination, diseases or extreme weather conditions stressing on vitamins A, D<sub>3</sub>, E, C and K re-imbalance. **AD3ECK QAS** prevents deficiencies of vitamins A, D<sub>3</sub>, E, C and K 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 from the skin by reaction of the 7-dehydrocholesterol with the UV rays. It is involved 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 C:** Vitamin C is a potent reducing agent. Related to this oxidation-reduction (redox) potential, two major functions of vitamin C are as an antioxidant and as an enzyme cofactor. Even in small amounts vitamin C can protect indispensable molecules in the body, such as proteins, lipids, carbohydrates, and nucleic acids (DNA and RNA), from damage by free radicals and reactive oxygen species that are generated during normal metabolism, by active immune cells, and through exposure to toxins and chemotherapy drugs. Vitamin C also participates in redox recycling of other important antioxidants as vitamin E from its oxidized form.

**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-soluble vitamin, the body stores very small amounts that are rapidly depleted without regular dietary intake. Vitamin K is also involved in skeletal formation and



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prevention of soft tissue calcification in collaboration of vitamin D<sub>3</sub>.

These vitamins have a role in a number of functions, being interrelated. This justifies the association of these vitamins to treat micro or macro-deficiencies of any of them.

### 3. RECOMMENDED USE

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- Prevention or treatment of vitamins A, D<sub>3</sub>, E, C or K deficiencies in farm animals, including rickets, myoskeletal deformities, decreased fertility in females and males.
- Convalescence
- Improve the immune response.
- Pregnancy, lactation or lay: improved egg production and hatchability, improved development of the foetus and new born animal.
- Prevention and treatment of stress caused by vaccination, diseases, transportation, high humidity, high temperatures or extreme temperature changes.

### 4. CONTRAINDICATIONS

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Do not exceed the dosage in gestation.

### 5. ADVERSE EFFECTS

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None described.

### 6. SPECIAL PRECAUTIONS

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

### 7. ADMINISTRATION

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Oral use in drinking water.

- Poultry: Add 1 ml per 2 litres of drinking water.
- Calves, goats and sheep: 1 ml/20 kg bw for 3 to 5 days.
- Cattle: 1 ml/40 kg bw for 3 to 5 days.

### 8. TARGET SPECIES

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Poultry, cattle, sheep and goats.

### 9. WITHDRAWAL PERIOD

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Zero days.

### 10. STORAGE CONDITIONS

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Store below 30 °C.

Protect from light.

### 11. SIZES

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1 L or 5 L



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