

# AD3E QAS

## NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

### 1. COMPOSITION

Each 100 ml contains: vitamin A palmitate 1,000 IU, cholecalciferol (vitamin D3) 200 IU, all-rac- $\alpha$ -tocopheryl acetate (vitamin E) 0.40 mg.

### 2. DESCRIPTION

**AD3E QAS** is a nutritional supplement consisting in a well-balanced combination of vitamins A, D3 and E. **AD3E 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. **AD3E QAS** 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 vitamins A, D3 and E re-imbalance. **AD3E QAS** prevents deficiency of vitamins A, D3 and E, 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 D3:** cholecalciferol or vitamin D3 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.

These three vitamins have a role in a number of functions, being interrelated. This justifies the association of the three vitamins to treat micro or macro-deficiencies of any of them. They also have a toning and preventive action.

### 3. RECOMMENDED USE

- Prevention or treatment of vitamins A, D3 or E 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.



SUPER'S DIANA, S.L.  
08150 Parets del Vallès  
(Barcelona), SPAIN  
Tel. +34 93 8437536  
[www.supersdiana.com](http://www.supersdiana.com)



Poultry & Livestock Solutions  
Office: Opp. King Mall, Near  
Wapda Town, G.T.Road  
Gujranwala, Pakistan  
Phone: +92 55 4284177-88

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### 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

Oral use in drinking water.

- Poultry: 1 ml per 5 litres drinking water.
- Other species: 5 ml/20 kg bw and additional 3 to 5 ml per each 20 kg bw excess.

### 8. TARGET SPECIES

All species.

### 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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