

LY-QAS +

NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

1. COMPOSITION

Each ml contains: lysozyme 40 IU; vitamin A 25,000 IU; vitamin D3 5,000 IU; vitamin E 15 mg; vitamin C 50 mg; *Passiflora incarnata* L. fluid extract 10 mg; *Valeriana officinalis* L. fluid extract 10 mg; *Tilia cordata* Miller fluid extract 5 mg; magnesium chloride 20 mg.

2. DESCRIPTION

LY-QAS + is a nutritional supplement consisting in a well-balanced combination of vitamins and lysozyme, an antimicrobial enzyme. **LY-QAS +** contributes to the well-being of the animal and the maintenance of the levels of micronutrients necessary for the good development of the animal, including young, convalescence, weak or orphan animals and animals recovering from or suffering an infectious disease. The plant extracts have a calming effect improving the performance of the farm animals.

Lysozyme: also known as muramidase or N-acetylmuramide glycanhydrolase is an antimicrobial enzyme produced by animals that forms part of the innate immune system. Lysozyme is a glycoside hydrolase that catalyses the hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in peptidoglycan, which is the major component of gram-positive bacterial cell wall. This hydrolysis in turn compromises the integrity of bacterial cell walls causing lysis of the bacteria.

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: vitamin D₃ 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- 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.

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 pollutants (e.g., certain chemotherapy drugs). Vitamin C also participates in redox recycling of other important antioxidants as vitamin E from its oxidized form.



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***Passiflora incarnata* L fluid extract:** traditionally used for the relief of mild symptoms of stress and to aid sleep. Relieve of stress conditions during transport, vaccination or disease contributes to the wellbeing and performance of the farm animal and farming management as well.

***Valeriana officinalis* L fluid extract:** traditionally used as a sedative, antiseptic, anticonvulsant, and pain reliever. It contributes to the well-being, performance and management of the farm animal.

***Tilia cordata* Miller fluid extract:** active ingredients include flavonoids (which act as antioxidants) and volatile oils. The plant also contains tannins that can act as an astringent are used for colds, cough, fever, infections, inflammation, diuretic antispasmodic (reduces smooth muscle spasm along the digestive tract), and sedative.

3. RECOMMENDED USE

- Improve the immune response.
- Prevention and treatment of stress caused by vaccination, diseases, transport, high humidity, high temperatures or extreme temperature changes.
- Prevention or treatment of vitamins A, D, E or C deficiencies in farm animals, including rickets, myoskeletal deformities, decreased fertility in males.
- Convalescence.
- Pregnancy, lactation or lay: improved egg production and hatchability, improved

development of the foetus and new born animal.

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.

1 ml per 2 litres of drinking water for 3 to 5 days.

8. TARGET SPECIES

Poultry, cattle, sheep and goats.

9. WITHDRAWAL PERIOD

Zero days.

10. STORAGE CONDITIONS

Store below 30 °C.

Protect from light.

11. SIZES

5 L



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