

MENTA-QAS +

NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

1. COMPOSITION

Each ml contains: rosemary oil 0.2 mg; eucalyptus oil 5.0 mg; thyme oil 5.0 mg; mint extract 7.0 mg; sodium chloride 20 mg; calcium chloride 20 mg; magnesium chloride 10 mg; potassium chloride 3 mg.

2. DESCRIPTION

MENTAQAS + is a refreshing oral solution intended to relieve the distress caused by heat and respiratory problems. **MENTAQAS +** consists in a well-balance solution containing essential oils and electrolytes with a positive effect on heat stress and respiratory problems. The rosemary, mint, eucalyptus and thyme essential oils facilitate respiration by bronchial dilatation; the electrolytes favour the rehydration of the animals. **MENTAQAS +** contributes to reduce heat stress symptoms as reduced feed intake resulting in a reduced body weight and increased fat content.

Essential oils: essential oils have been used for centuries in traditional medicine as antiseptics, and for respiratory ailments.

Rosemary oil: rosemary contains a number of phytochemicals, including rosmarinic acid, camphor, caffeic acid, ursolic acid, betulinic acid, carnosic acid, and carnosol. Rosemary essential oil contains 10–20% camphor. Rosemary boost the immune and circulatory system, and promote hair growth.

Eucalyptus oil: eucalyptus contains a number of essences with effect as an antiseptic and in very small quantities in food supplements, cough drops

and decongestants. It has insect repellent properties.

Thyme oil: oil of thyme, the essential oil of common thyme (*Thymus vulgaris*), contains 20–54% thymol. Thyme essential oil also contains a range of additional compounds, such as p-cymene, myrcene, borneol, and linalool. Thymol is an antiseptic both internal and external and it has a beneficial effect on the respiratory tract.

Mint extract: mint is a calming and soothing herb that has been used for thousands of years to aid with upset stomach or indigestion and as an internal and external antiseptic. Mint is thought to increase bile secretion and encourage bile flow, which helps to speed and ease digestion. Menthol has local anaesthetic and counterirritant qualities, and it is widely used to relieve minor throat irritation. Menthol also acts as a weak kappa opioid receptor agonist. This central action helps to relieve stress causing by heat and causes a refreshing effect in the body.

Electrolytes: electrolytes are essential to balance hydration and keep the homeostasis.

Magnesium: magnesium is an essential mineral and a cofactor for hundreds of enzymes. Magnesium is involved in many physiologic pathways, including energy production, nucleic acid and protein synthesis, ion transport, cell signalling, and also has structural functions. Severe magnesium deficiency (hypomagnesemia) can impede vitamin D and calcium homeostasis.



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Potassium: potassium is an essential dietary mineral and electrolyte. Normal body function depends on tight regulation of potassium and sodium concentrations both inside and outside the cells.

Sodium: sodium modulates extracellular fluid volume and acid-base balance. Sodium plays an indispensable role in the ATPase $\text{Na}^+ - \text{K}^+$, and is part of the salts that exert a buffer function at ruminal pH.

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 enzymes and in the cascade of blood coagulation, among others.

Chloride: Chloride ion helps maintain osmolarity as counter-part of the cations in solution and actively participates in acid-base regulation.

3. RECOMMENDED USE

- Relieve symptoms caused by heat stress syndrome: reduced feed intake, lower body weight, increased carcass fat content, decreased carcass lean content, decreased fertility rate, decreased egg production, decreased egg size, reductions in egg shell quality, increased susceptibility to illness, increased mortality rate.

- Helps rehydrating poultry suffering from heat stress.

4. CONTRAINDICATIONS

None described.

5. ADVERSE EFFECTS

None described.

6. SPECIAL PRECAUTIONS

None described.

7. ADMINISTRATION

Oral solution for administration in drinking water.
1-2 ml / 4 litres in drinking water depending on the severity of heat stress syndrome.

8. TARGET SPECIES

Poultry.

9. WITHDRAWAL PERIOD

Zero days.

10. STORAGE CONDITIONS

Store below 30 °C.

Protect from light.

11. SIZES

1 L



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