

# LOVE-QAS

## NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

### 1. COMPOSITION

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Each litre contains: sorbitol 200 g, carnitine hydrochloride 25 g, choline chloride 18.75 g, DL-methionine 10 g, magnesium sulfate heptahydrate 10 g.

### 2. DESCRIPTION

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**LOVE-QAS** is a nutritional supplement consisting in a well-balanced combination of sorbitol, amino-acids (carnitine and methionine), vitamin-like essential nutrient choline and magnesium. **LOVE-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. **LOVE-QAS** enhances the detoxifying function of the liver, improves digestion of fats and the appetite. **LOVE-QAS** improves the recovery of convalescence animals after treatment.

**Sorbitol:** sorbitol stimulates the secretion of pancreatic enzymes and has a detoxifying effect on the liver by increasing the production and secretion of bile (choleretic and cholagogue effect). Sorbitol is particularly useful for animals raised in an intensive way, especially during weaning and critical growth phases.

**Carnitine:** carnitine is a conditionally essential micronutrient. L-carnitine is required for mitochondrial  $\beta$ -oxidation of long-chain fatty acids for energy production. Long-chain fatty

acids must be in the form of esters of L-carnitine in order to enter the mitochondrial matrix where  $\beta$ -oxidation occurs.

**Choline:** Choline is a vitamin-like essential nutrient and a methyl donor involved in many physiological processes, including normal metabolism and transport of lipids, methylation reactions, and neurotransmitter synthesis. Choline deficiency causes muscle damage and abnormal deposition of fat in the liver.

**Methionine:** As the substrate for other amino acids such as cysteine and taurine, versatile compounds such as SAM-e, and the important antioxidant glutathione, methionine plays a critical role in the metabolism and health of many species. Methionine is also an important part of angiogenesis, the growth of new blood vessels. Supplementation may benefit those suffering from copper poisoning.

**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.

### 3. RECOMMENDED USE

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- Loss of appetite.
- Ascites.
- Hydropericardium.



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# LOVE-QAS

## NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

- Improves digestion and metabolism, especially fats.
- Enhances the detoxification function of the liver.

It can be used together with anticoccidial, antibiotic or antiparasitic drugs to minimize their possible damaging effects on the liver.

### 4. CONTRAINDICATIONS

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None described.

### 5. ADVERSE EFFECTS

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None described.

### 6. SPECIAL PRECAUTIONS

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None described.

### 7. ADMINISTRATION

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Oral use in drinking water.

- Poultry: 1 mL / 2 litres of drinking water.
- Equine: 1 mL / 10 kg b.w.
- Dairy cow: 1 mL / 10 kg b.w.
- Dry cow: 0.5 mL / 10 kg b.w.
- Dairy ovine and caprine: 1 mL / 10 kg b.w.
- Dry ovine and caprine: 0.5 mL / 10 kg b.w.
- Camel: 0.5 - 1 mL / 10 kg b.w.

It may be used for 10 consecutive days in high performing layers, breeders and fast growing broilers.

### 8. TARGET SPECIES

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Poultry, cattle, sheep, goats, horses and camels.

### 9. WITHDRAWAL PERIOD

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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