

# VMC-813 +

## NUTRITIONAL SUPPLEMENT IN ORAL SOLUTION

### 1. COMPOSITION

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Each ml contains: vitamin D<sub>3</sub> 5,000 IU; calcium 35 mg (as gluconate and chloride); magnesium chloride 20.6 mg; zinc chloride 2.82 mg; manganese chloride 1.3 mg.

### 2. DESCRIPTION

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**VMC-813 +** is a nutritional supplement consisting in a well-balanced combination of vitamin D<sub>3</sub> and minerals involved in bone and egg-shell formation.

**VMC-813 +** contributes to the well-being of the animal and the maintenance of the levels of vitamin D<sub>3</sub>, calcium, and micronutrients magnesium, manganese and zinc necessary for the good development of the animal, including laying poultry, young, convalescence, weak or orphan animals. **VMC-813 +** boosts the performance of laying poultry.

**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.

**Calcium carbonate.** Calcium 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.

**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.

**Zinc:** Zinc is an essential trace element for all forms of life. Zinc plays important roles in growth and development, immune response, neurological function, and reproduction. Over 300 different enzymes depend on zinc for their ability to catalyse vital chemical reactions. Besides, zinc plays an important role in the structure of proteins and cell membranes. Zinc-proteins have been found to regulate gene expression binding to DNA and influencing the transcription of specific genes. Moreover, zinc has been found to influence hormone release and nerve impulse transmission.

**Manganese** is a mineral element that is both nutritionally essential and potentially toxic. Manganese (Mn) plays an important role in a number of physiologic processes as a constituent of multiple enzymes and an activator of other enzymes.

### 3. RECOMMENDED USE

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- Improvement of the performance of laying poultry.
- Improvement of egg-shell and egg quality.



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- Prevention and treatment of calcium/vitamin D deficiency including rickets, bone disorders, bone fragility, egg-shell fragility, underperforming animals.
- Replacement of vitamin D, calcium and minerals.

#### 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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Poultry. Oral use in drinking water.

- Layers:
  - Treatment: 1 litre / 1000 litres drinking water for 3 days.
  - Prevention: 1 litre / 1000 litres drinking water once a week from starting of lay.
- Broilers.
  - Treatment: 1 – 2 litres / 1000 litres drinking water for 3 days.
  - Prevention: 1 litre / 1000 litres drinking water for 3 days.

#### 8. TARGET SPECIES

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Poultry.

#### 9. WITHDRAWAL PERIOD

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Zero days.

#### 10. STORAGE CONDITIONS

Store below 30 °C.

Protect from light.

#### 11. SIZES

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5 L



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