**CORONA® Hoof Formula**

Complete High-strength Supplement Rich in Biotin, MSM, Amino Acids, Minerals and Probiotics, Formulated to Prevent and Restore Damaged Hoofs

**Active ingredients (per dose):**

- Biotin (vitamin B7) 20 mg
- Methylsulphonylmethane (MSM) 2,500 mg
- Sulphur 1,485 mg
- Calcium 42 mg
- Copper 58 mg
- Phosphorus 7.2 mg
- Magnesium 10.2 mg
- Zinc 290 mg
- Aspartic acid 57 mg
- Glutamic Acid 105 mg
- Alanine 45 mg
- Arginine 57 mg
- Cystine 9 mg
- Phenylalanine 24 mg
- Glycine 450 mg
- Histidine 27 mg
- Isoleucine 54 mg
- Leucine 84 mg
- Lysine 60 mg
- Methionin 3,015 g

- Proline 60 mg
- Serine 27 mg
- Tyrosine 15 mg
- Threonine 51 mg
- Tryptophan 18 mg
- Valine 84 mg
- Saccharomyces cerevisiae 3x10^{10} CFU

**Composition:** Micronised and toasted carob pulp, sodium chloride, methylsulphonylmethane (MSM).

**Additives per kg:** Vitamins - Biotin 667 mg. Trace elements - E4 Copper chelate of glycyne hydrate (Cu) 1.935 mg; E6 Zinc chelate of glycyne hydrate (Zn) 9.666 mg. Amino acids - DL-Methionine 100 g. Gut flora stabilizers - 4b1710 Saccharomyces cerevisiae MUCL39885, 1x10^{12} CFU. Antioxidants - E321 Butylated hydroxytoluene BHT 25 mg; E 324 Ethoxyquin 25 mg.

**Analytical constituents:** Crude protein 11.5%; crude oils and fats 0.2%; crude fibre 4.65%; crude ash 21%; sodium 6.3%.

**Mechanism of action:**

- Biotin is a water soluble vitamin in the B vitamin group. All organisms need biotin, although not all synthesise it - mammals being among them - consequently, daily intake is necessary. Biotin plays a crucial role in cell replication (tissue renewal), metabolism of carbohydrates, lipids and amino acids and is involved in the synthesis of various proteins such as keratin, the major structural protein in the epidermis, present in the skin, hair and hooves. Long term biotin supplementation improves the quality, and possibly, also the growth rate of the hoof. There are many biotin supplements; for a product to be effective it is very important that the biotin is provided in an optimum concentration (20 mg/dose) and that it is combined with other critical nutrients for the hoof such as zinc, copper, methionine, cystine, lysine, etc.

- Hoof supplements often contain methionine, however, this is only one of the amino acids forming the protein of the hoof and deficiencies in any essential amino acid can be as damaging as methionine deficiency. The hoof contains high levels of cystine, arginine, leucine, lysine, proline, serine, glycine and valine as well as lower levels of methionine, phenylalanine and histidine. The sulphur amino acids (methionine and cystine) are vital for keratin production.

**Features**

Recommended by veterinarians to prevent and restore dry, brittle, cracked or damaged hoofs.

- Promotes thicker and more elastic hoof walls to facilitate shoeing and avoids the usual loss of horseshoes.

Complete: Biotin, MSM, Methionine, Cystine, Lysine, Zinc, Copper, Calcium, Sulphur, Probiotic...

- High-strength: high concentrations of active ingredients and with the ideal proportions.

- Chelated Zinc and Copper - Better absorption and bioavailability.

MSM - Anti-inflammatory and analgesic action without side effects.

Contains a probiotic to balance the gut flora, thus bolstering overall health, immunity and resistance to diseases and it improves the digestibility and utilisation of food.

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• Trace minerals such as zinc and copper are needed for keratin and collagen synthesis, consequently, they play a critical role in maintaining the skin, coat and hoofs. Zinc and copper are chelated in the CORONA® formula for improved absorption and bioavailability.
• Calcium, phosphorus, sulphur and magnesium are also part of the CORONA® composition. Calcium is important to maintain the integrity of the hoof wall since it is essential for joining the keratin. The calcium: phosphorus ratio should be 3:1 in foals and up to 6:1 in adult horses.
• Methylsulphonylmethane (MSM) is a mild action analgesic and anti-inflammatory. MSM is also very rich in sulphur, a mineral involved in the integrity of collagen, cartilage, joint fluid, hoofs and hair. It has also been reported that organic sulphur inhibits the proliferation of scar tissue and slows neurotransmitters, causing muscular relaxation. It is ideal for prolonged use due to its lack of side effects.
• Saccharomyces cerevisiae is a probiotic which helps maintain a balanced flora in the intestine, thus boosting overall health and growth, the immune system, digestion and utilisation of feed, resistance to stress etc.

Indications:
• To stimulate an optimal hoof growth, promoting strong, resilient and healthy hoofs.
• To help prevent and restore dry, brittle, cracked, damaged, split etc., hoofs.
• To promote thicker and more elastic hoof walls to facilitate shoeing and avoid the usual loss of horseshoes.

Target species: Equidae.

Dosage and administration: The scoop included, up to the mark, equivalent to 30 grams. Administer directly in the feeder or mixed with feed. It is recommended to stir the product before use.
• Recovery of damaged hoofs - Adult horses (average weight 500 kg): 1 scoop (30 g) per day. Foals and Ponies: 1/2 scoop (15 g) per day. In hoofs with severe problems it may be necessary to administer CORONA® for up to 6 consecutive months for a full recovery.
• To maintain healthy hoofs: 1/2 scoop (15 g) per day until finishing the container, once a year.

Warnings: This product does not contain any substances which are banned in competition. Keep the container tightly closed in a cool, dry place, away from direct sunlight and out of reach of children and animals. Complementary feed for horses, not intended for human consumption.

Presentation: 1.35 kg (45-90 doses, 1.5 months’ supply for the standard dose and 3 months for the maintenance dose).

Bibliography:
• EFSA (European Food Safety Authority). 2006. Opinion of the Scientific Panel on Additives and Products or Substances used in Animal Feed on the safety and efficacy of the product BiosafSc 47, a preparation a Saccharomyces cerevisiae, as a feed additive for horses. The EFSA Journal, 384, 1-9
• EFSA (European Food Safety Authority). 2009. Safety and efficacy of Yea-Sacc1026® (Saccharomyces cerevisiae) as feed additive for horses. The EFSA Journal, 991, 1-14
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- Harper, F. Feeding Your Horse’s Hooves
Hoof supplements often contain methionine, however, this is only one of the amino acids forming the keratin matrix. Trace minerals such as zinc and copper are needed for keratin and collagen synthesis, consequently, in hoof formulas a combination of various nutrients is often used. Calcium, phosphorus, sulphur and magnesium are also part of the CORONA® composition. Calcium is crucial for the strength and elasticity of the hoof. It is involved in the synthesis of various proteins such as keratin, the major structural protein in the epidermis of the hoof. Keratin is involved in the structural integrity of the hoof. The amino acids methionine and cystine are vital for keratin production.

Biotin is a water soluble vitamin in the B vitamin group. All organisms need biotin, although not all need it in equal amounts. It is involved in the synthesis of various proteins such as keratin, the major structural protein in the epidermis of the hoof. Keratin is involved in the structural integrity of the hoof. The amino acids methionine and cystine are vital for keratin production.

The amino acids - DL-Methionine, Isoleucine, Leucine, and Arginine are included in CORONA® because they are involved in the synthesis of keratin, which is the major structural protein in the epidermis of the hoof. Keratin is involved in the structural integrity of the hoof. The amino acids methionine and cystine are vital for keratin production.

Methylsulphonylmethane (MSM) is a mild action analgesic and anti-inflammatory. MSM is also very rich in organic sulfur, which is an essential component of the keratin matrix. MSM is a natural anti-inflammatory and analgesic that can help reduce pain and inflammation in the hoof.

To maintain healthy hoofs: 1/2 scoop (15 g) per day until finishing the container, once a year.

Recovery of damaged hoofs - Adult horses (average weight 500 kg): 1 scoop (30 g) per day. Foals and ponies: 1/2 scoop (15 g) per day. In hoofs with severe problems it may be necessary to administer two scoops (60 g) per day. This product does not contain any substances which are banned in competition. Keep the scoop included, up to the mark, equivalent to 30 grams. Administer directly in the feeder or mixed with feed. It is recommended to stir the product before use.

If you are interested in any of the articles listed, please do not hesitate to request them through the following contacts: vetnova@vetnova.net, +34 918 440 273, or your VetNova or Distributor Sales Representative.

References: