NUTRITIONAL SUPPLEMENT

CAROTENE

- Source of **beta-carotene**, **highly assimilable trace elements** and **protected vitamins**.
- Helps improve **fertility in breeding stock** and **colostrum quality** in broodmares.

INDICATIONS

- Coverage of daily requirements of beta-carotene, vitamins A, E and B3, zinc, copper, manganese, selenium and iodine.
- Reverdy CAROTENE can be used at increased doses in the following situations:
  - Fertility disorders in mares and stallions,
  - Last third of gestation *(improvement in the quality of colostrum)*.

PACKAGING

3 kg

9 kg

DIRECTIONS FOR USE

Distribute with cereals or feed. Mix well into the ration.

1 measuring cup = 80 g

ADULT HORSE *(500 KG)*	RECOMMENDED DAILY DOSE
Maintenance dose	½ measuring cup (40 g), *or 8 g/100 kg body weight*
Maximum recommended dose	1 ½ measuring cups (120 g), *or 24 g /100 kg body weight*

In breeding animals *(broodmares and stallions)*, it is advisable to start distributing Reverdy CAROTENE at least 6 to 8 weeks before the expected date of the due date or the first mating.

For ponies, feed a daily dose corresponding to the animal's body weight.

NOPS*

MADE IN FRANCE

Small pellets

** Free from Naturally Occurring Prohibited Substances (NOPS), in accordance with the regulations of the racing codes, FEI, FFE and SHF.*

Formulated by our Research and Development department.

DETAILED COMPOSITION

Barley, extruded linseed *(wheat bran base)*, fructose, calcium carbonate.

PAR KILO	
Zinc (*Hydroxychloride*)	7,200 mg
Copper (*Trihydroxy chloride*)	1,500 mg
Manganese (*Trihydroxy chloride*)	3,000 mg
Iodine (*Calcium iodate*)	20 mg
Selenium (*L- selenomethionine*)	15 mg
Beta-carotene	10,000 mg
Vitamin A	1,000,000 UI
Vitamin E	15,000 mg
Vitamin B3 *(PP ou Niacin)*	2,150 mg

ANALYTICAL CONSTITUENTS	
Humidity	10 %
Total protein	12,5 %
Fats and oils	6 %
Crude fibre	4 %
Crude ash	7 %
Calcium	0.9 %
Phosphorus	0.25 %
Sodium	0.1 %

1 MEASURING CUP *(80 g)* **OF CAROTENE PROVIDES**

800 mg beta-carotene, 80,000 IU vitamin A, 1,200 mg vitamin E, 172 mg vitamin B3, 576 mg zinc, 240 mg manganese and 120 mg copper, 1.2 mg organic selenium and 1.6 mg iodine.

CONSERVATION

- Store in a dry place, away from light, at room temperature.
- Shelf life: 18 months from the date of manufacture.

PROPERTIES

Beta-carotene may improve fertility in broodmares:
- as a precursor of vitamin A in the follicles, it participates in the synthesis of estrogens and is therefore favorable to good follicular growth,
- as a local antioxidant, it protects the cells of the reproductive system from the attack of free radicals,
- after ovulation, it ensures proper functioning of the corpus luteum within which it participates in the synthesis of progesterone. It thus contributes to maintaining gestation. Among the observed effects of beta-carotene supplementation, we can note more visible heats, a reduction in the number of ovarian cysts, an improvement in the fertility rate, a reduction in embryonic mortality as well as a reduction in placental retention.

In stallions, beta-carotene participates (as a precursor of vitamin A) in the synthesis of testosterone. It therefore ensures good production and maturation of spermatozoa. Thanks to its antioxidant action , it participates in the protection of spermatozoa against the attack of free radicals.

Vitamin A conditions protein synthesis with repercussions on the integrity of the epithelia of the reproductive system, the production of sex hormones and immunity.

Vitamin E and organic selenium enhance the antioxidant action of beta-carotene. In addition, their supplementation would increase the colostral concentration of antibodies *(IgG and IgM)* as well as the amount of colostrum produced, hence a better transfer of immunity from the mother to the foal.

Zinc may play a role in reproduction as an essential activator of enzymes in the production of sex hormones but also through its function in the transport of vitamin A.

Copper supplementation would improve the release of sex hormones *(FSH and LH)* at the brain level *(pituitary gland)*.

Manganese and **vitamin B3** are involved in the production of sex hormones.

Iodine is essential for the synthesis of thyroid hormones which stimulate the production of FSH and LH by the pituitary gland.

PRECAUTIONS FOR USE

Due to the presence of trace elements *(including selenium)* and vitamins in high quantities, follow the instructions for use.

MAJ 28/10/24