FOLIC ACID & FOLIC ACID & VITAMIN B12 INJECTIONS

OTC

Individual and combined supplements of folic acid and vitamin B12

COMPOSITION

Folic Acid Injection: Folic acid 15 mg/mL
Folic Acid & B12 Injection: Folic acid 15 mg/mL, Cyanocobalamin (B12) 500 µg/mL

ACTIONS

Folic acid and vitamin B12 are essential B Complex vitamins, both vitally involved in many critical metabolic processes related to coenzymes for tissue formation, DNA synthesis, complete utilisation of carbohydrates and proteins for nervous tissue maintenance and energy production, and blood counts.

Folic acid and vitamin B12 act in synergy in the formation of DNA, and deficiencies can have serious consequences for performance horses with a high tissue turnover rate,during pregnancy and growth of young foals. Clinically, the first sign of deficiency is anaemia. Lack of either folic acid or vitamin B12 can create anaemias. As the deficiency may be indistinguishable for either of these essential vitamins, they are often grouped in one product for therapeutic and preventative use.

How Does It Work?

Folic acid is an essential B group vitamin which is involved in many metabolic processes as an important coenzyme. Its more important role is in the formation of nucleic acids (DNA) from amino acids.

Folic acid (along with vitamin B12, vitamin B6, vitamin C and iron) is vital to the formation of red and white blood cells and haemoglobin, as well as for rapidly dividing cells which include gastrointestinal epithelial cells, the growing foetus, skin and hair.

Folic acid is involved in the formation of the amino acids methionine and glycine, as well as the vitamin choline. Vitamin B12 is essential to the formation of folic acid. Folate is abundant in fresh, green feeds, but processing feed rapidly destroys it. Folic acid supplementation is highly recommended during pregnancy, as deficiencies in young growing animals are often associated with retardation. Cooking and storage of feeds destroy folic acid levels.

When antibiotics, particularly sulphur drugs, are used for extended periods, the normal synthesis of folic acid in the gut will be reduced, and the requirement for folic acid is increased.

Folic acid requirements are far greater in athletic performance horses where the synthesis and absorption from the gut are reduced by the stress of training and performance.

Supplements of folic acid are reported to improve antibody response in animals.

Vitamin B12 is useful to stimulate appetite in horses, and is essential in maintenance of adequate blood counts.

INDICATIONS

For the treatment of macrocytic anaemia in dogs and horses.

DOSAGE AND ADMINISTRATION

Administer intramuscularly twice weekly or as directed by a veterinary surgeon.
Horses: 5 to 10 mL
Dogs: 1 to 2 mL

WARNINGS

Meat Withholding Period (Horses): Nil

PRESENTATION

100 mL sterile glass multi-dose vial.

STORAGE

Store below 25°C (Air Conditioning). Protect from light (always store in box).

AVAILABILITY

Folic Acid: For General Sale (APVMA 51512)
Folic Acid & B12: For General Sale (APVMA 51116)
Vitamin B12: For General Sale (APVMA 51345)

NOTES

If used in performance animals, the regulations of the relevant authorities regarding medication should be observed.