

L-CARNITINE INJECTION & PASTE

AMINO ACID SUPPLEMENT

OTC

L-carnitine amino acid supplement to enhance energy production for performance



COMPOSITION

Injection: L-Carnitine 200 mg/mL

Paste: L-Carnitine 200 mg/g, D-Panthenol 20 mg/g (Vit B5)

ACTIONS

L-Carnitine is an amino acid essential in the transport of fats into muscle cells for energy production. By using fats as energy for muscle contractions, the body is sparing glycogen and delaying the accumulation of lactic acid.

L-Carnitine delays muscle fatigue by reducing lactic acid formation, and improves sprint and endurance performance¹.

* Muscle levels of L-Carnitine determine the exercise capacity of muscles.

* L-Carnitine is essential for normal heart function.

* Performance horses recover more efficiently when supplemented with L-Carnitine.²

L-Carnitine forms an essential part of the transport system which moves fatty acids into the mitochondria for energy production. It thus acts as a buffer by inhibiting lactic acid buildup in muscles, helping to delay fatigue and prevent Tying Up. Demand for L-Carnitine in heavily exercising horses is often not met from the diet, as large amounts are consumed during exercise. Supplementing L-Carnitine increases blood and muscle L-carnitine levels.³ This results in improved energy supply, increased use of fatty acids as an energy source, decreased lactate buildup, and a significant increase in maximum work output.

Performance horses can rapidly run out of glycogen as an energy source, but will rarely run out of fats. Mobilising fats as an energy source helps prevent the accumulation of lactic acid in muscles, hence delaying fatigue and possible Tying Up, and significantly improving the capacity of muscles to work harder for longer.

INDICATIONS

Carnitine supplement for horses and dogs.

DOSAGE AND ADMINISTRATION

Injection: 3mL per 100 kg bodyweight (15mL per 500kg horse) by intramuscular injection 2 times weekly or as directed by your veterinarian.

Paste: *Adult horse:* 10mL

Dog: 1mL per 10kg bodyweight

Administer 2 -3 times weekly or as directed by your veterinarian.

WARNINGS

Injection: Meat Withholding Period (Horses): Nil

PRESENTATION

100mL sterile glass multi-dose vial.

250g paste pot with syringe.

STORAGE

Injection: Store below 25°C (Air Conditioning). Protect from light.

Paste: Store below 30°C (Room Temperature). Protect from light.

AVAILABILITY

For General Sale (APVMA [Injection] 40293)

NOTES

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

HANDY HINT

L-Carnitine is commonly used in combination with AMP-5, Creatine, COpHOS B and Tripart. It can be alternated with Mitochondrial Injection as necessary. Preferably use pastes for regular supplementation. Those who prefer injectables may consider the injection pre-event, to achieve high blood levels.¹

REFERENCES

1. Rivero JL, et al., 2002 *Equine Vet. J. Suppl.* 34:269-74.
2. Zeyner A1, Harmeyer J. 1999 *Arch. Tierernähr.* 52:115-38.
3. Harris RC, et al., 1995 *Equine Vet. J.* 27:382.-387.