

- ✓ Liver protective and tonic
- ✓ A source of muscle energy
- ✓ Wide distribution for 48-96 hours<sup>2</sup>
- ✓ A laboratory animal study indicates Methionine and Glucosamine reduced symptoms of arthritis<sup>4</sup>

# DL-Acetyl-Methionine

## INJECTABLE AMINO ACID

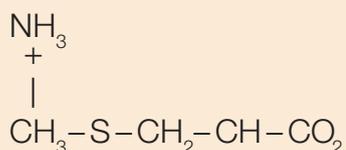
DL-Acetyl-Methionine 200 mg/mL

50 mL vial

**Methionine** is an essential, sulfa-containing amino-acid not produced by the body. It has a number of pharmacological effects important for the treatment and management of a significant number of diseases, disorders and conditions of horses.

A study in laboratory animals reported on the distribution <sup>14</sup>C Methionine (Radioactive) in a range of organs and tissue. Methionine was detected in liver, kidney and muscle for 96 hours, and other organs and tissue for 48 hours, after a single treatment<sup>2</sup>. This study indicates Methionine is long-acting and persists for a considerable time in a number of important organs.

For horses the injection is convenient for administering accurate doses of Methionine.



**Methionine – liver:** A liver protective and tonic, it detoxifies the liver following insults from toxins. Methionine is a lipotropic compound – it assists in the breakdown of fat in the liver and conversion of food to energy. The liver is the powerhouse of the body.

**Methionine – racing, endurance, sport – horses and camels:** Primary or secondary liver disorders are relatively common in the horse. The lipotropic actions of Methionine are important for a healthy liver and for the general health and well being of horses. Methionine is indicated in racing and sport horses as a liver protective and a liver tonic.



A recent report of arthritis in laboratory animals indicated Methionine and Glucosamine had a positive effect on arthritis, including reduction in swelling and joint inflammation<sup>4</sup>.

Methionine has been suggested as a treatment of laminitis in horses and cattle (purportedly provides a disulfide bond substrate to maintain the hoof-pedal bone<sup>3</sup>).

1. Penagaricano F, *et al*: DOI: 10.1371/journal.pone.0072302; published August 21, 2013

2. Bernard P, Durand S; HAL Id: hal-00901266

3. <http://veterinary-help.com/499-methionine-dl-methionine.htm>

4. Yamagishi Y *et al* Exp. Ther Med: (4) 640 – 644 2012

# DL-Acetyl-Methionine

## Injectable Amino Acid Supplement

### PRODUCT INFORMATION

#### ACTIVE CONSTITUENT:

Acetyl-dl-Methionine 200 mg/mL – 50 mL vial.

Methionine is an essential sulfa – containing amino-acid.

An injectable amino-acid for Horses, Cattle, Sheep, Goats, Pigs, Dogs and Cats.

Hepto-protective, detoxification of the liver, liver insufficiency supportive treatment of liver disease (protection of the formation of free-radicals in tissues).

**INDICATIONS:** For use as supportive therapy in the treatment of liver disease in horses cattle, sheep, goats, pigs, dogs and cats.

#### COMPLEMENTARY TREATMENT FOR:

- ✓ Reproduction
- ✓ Hepatitis
- ✓ Hepatic steatosis
- ✓ Metabolic disorders
- ✓ Acetonemia
- ✓ Hypocalcemia
- ✓ Tetany
- ✓ For acidification of urine
- ✓ Joint disease
- ✓ Hoofs

#### DIRECTIONS FOR USE:

By slow intramuscular injection, it is approved for IV administration in other registration jurisdictions.



#### DOSAGE:

Horses, Cattle, Sheep, Goats and Pigs – 10 mL per 100 kg bodyweight

Dogs – 10 mL per 20 kg bodyweight

Cats – 1 mL/kg bodyweight

Repeat after one week or as directed by a veterinarian.

The intramuscular IM injection is sometimes slightly painful. To avoid this the required dose may be diluted in twice the volume of the injection dose in sterile water.

#### WITHHOLDING PERIOD:

Meat/Milk – NIL.

Racing – NIL, it is preferable to suspend administration 48 hours before racing.

#### EXPORT SLAUGHTER INTERVAL (ESI):

NIL.

**FIRST AID:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

**STORAGE:** Store below 25°C (air conditioning). Protect from Light.

**DISPOSAL:** Dispose of empty containers by wrapping in paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled 'sharps' container.

APVMA APPROVAL No. 36730 / 50 mL / 0108.

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