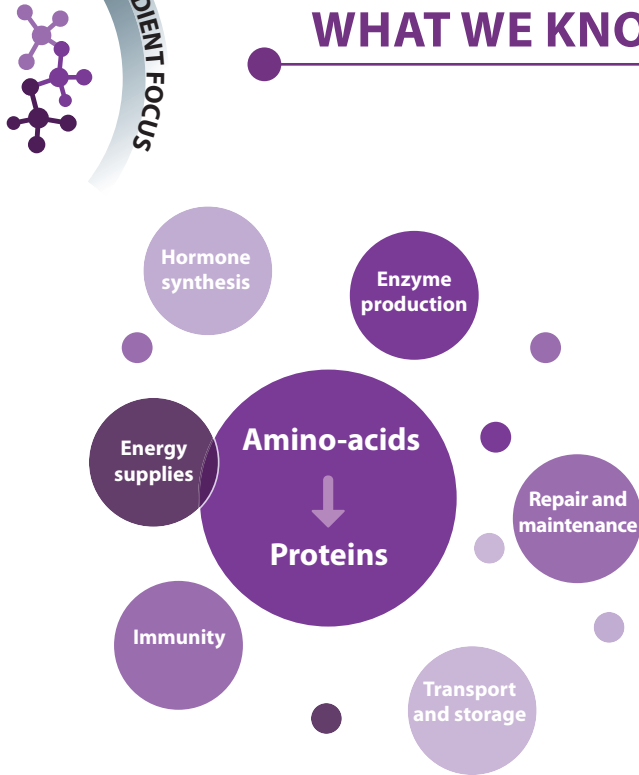


WHAT WE KNOW



LIMITING AMINO ACID

A limiting amino acid (AA) is a dietary indispensable AA present in the diet often provided below its requirement and thereby limiting protein synthesis. In the horse, several studies have identified lysine as a limiting AA and it has also been suggested in a few studies that threonine and methionine may also be limiting.

THE IDEAL PROTEIN

The ideal protein is a protein where the pattern of indispensable amino acids provided by the diet resembles the pattern of the animal's requirement for the same amino acids.

A recent study looking at the effect of the ideal protein provided in the diet on muscle mass as defined by the NRC (2007) identified that although there were no visible changes observed, histology performed on muscle biopsies identified a significant decrease in type 2 muscle fibres in the standard protein group as compared to an increase in type 2 fibres in the ideal protein group. ⁽¹⁾

(1) P.M. Graham-Thiers, and L.K. Bowen - Department of Equine Studies, Virginia Intermont College, Bristol, VA 24201 - Abstracts / Journal of Equine Veterinary Science 33 (2013) 321-399



AUDEVARD SOLUTION : MYOSTEM MASS

- ✓ **The most essential amino acid-rich formula on the market**
- ✓ **62g of protein/dose of which 5.3g of lysine and 3.9g of threonine**
- ✓ **Optimal uptake: enriched with BIO-MOS® and fenugreek**

This nutraceutical, concentrated in essential amino acids, has been formulated based on the ideal protein intake of equine muscle.

USES

- 1 Increased demands during training
- 2 General fitness and maintenance of condition
- 3 Convalescence and rehabilitation
- 4 Youngstock during periods of growth



MYOSTEM MASS

MUSCULAR DEVELOPMENT

■ Description

Appropriate nutrition is required to promote muscle development. Muscle cells are made up of specific proteins, themselves consisting of specific combinations of amino acids. A lack of limiting amino acids in horse feed can often hinder muscle growth.

■ Purpose

MYOSTEM MASS is a complementary feed formulated by AUDEVARD Laboratories. Rich in essential and limiting amino acids, it is designed to provide nutritional support for muscle development in horses undergoing training and horses that are older out of shape, recovering from a disease as well as growing foals.

■ Formula

The MYOSTEM MASS formula provides a calculated and concentrated amount of «limiting» amino acids, so called as they are often found in insufficient quantities in food. Fenugreek improves feed intake in horses and prebiotics help digestion.

■ Our advice

Advise your customers to provide a carbohydrate-rich feed at the same time as MYOSTEM MASS. It is best to give the product in the hours following exercise, so that it can be assimilated during protein synthesis. If the horse doesn't work or only works a little, use BO YEA SACC instead.

■ Daily allowance

1 measure= 25g

- Adult horses: 4 measures per day for 3 weeks minimum.

- Foals: 1 to 2 measures per day for 3 weeks minimum.

For optimal use, give in the hours following the effort while ensuring an adequate carbohydrate intake (cereals etc.).

■ Professional format

2.1 kg box - (EAN 3401195011005). Sufficient for up to 21 days' use in adult horses (42 days' use in foals).

6 kg box - (EAN 3515650940943). Sufficient for up to 50 days' use in adult horses (100 days' use in foals).



Composition for 1kg

Additives :

• **Aromatic 2b Substances:** L-Histidine 19.6 g, Leucine 19 g, L-Phenylalanine 11.4 g.

• **3c-amino acids :** 3c3.6.1 L-Arginine 21 g, 3.2.3 L-lysine monohydrochloride 16 g, 3.3.1 L-threonine 10.6 g, 3c3.7.1 L-valine 6.7 g, 3c3.8.1 L-isoleucine 2.5 g, methionine 3c301 2.5 g

Raw materials:

Potato protein, Fenugreek (*Trigonella foenum-graecum*), Calcium Carbonate, Extract walls of specific yeasts, molasses.

Analytical constituent :

Humidity <8%, crude proteins 62%, crude fats 2.5%, crude ashes 12%, crude fibres 1%, sodium 0.5%

This product belongs to the complementary feed for horses category.

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Product controlled in the context of
Audevard Anti-Doping Program.
Protocol details at www.audevard.com.