



Smartamine® M

QUALITY STANDARD

REF: 203 V8 (14/09/2021)_EN

DESCRIPTION

Smartamine® M is Adisseo's rumen-stable, abomasum-dispersible methionine product for ruminants. It is produced using a unique patented process.

Smartamine® M contains:

- a core of concentrated methionine,
- a pH-sensitive coating.

This specifically-designed coating ensures that the methionine is perfectly protected in the rumen and fully released in the abomasum. The methionine is thus made available in the intestine. There it is absorbed and can be used by the animal.

COMPOSITION

DL Methionine CAS N° [59-51-8]	Amino acid synthesis	74 %
Stearic acid	Vegetal	19 %
Moisture		3.5 %
Poly (2-vinylpyridine) –co-styrene		3 %
Ethylcellulose	Vegetal	0.5 %
	Total	100%

Patented pH-sensitive coating, containing copolymer poly(2-vinylpyridine-co-styrene).

SPECIFICATIONS

Appearance	beadlets
Color	white to grey
DL-methionine content	min. 74%
Copolymer poly (2-vinylpyridine-co-styrene)	max. 3%
Protection in vitro	min. 90%
Release in vitro	min. 90%
Chemical formula	$\text{CH}_3\text{-S-CH}_2\text{-CH}_2\text{-CH(NH}_2\text{)-COOH}$

DURATION OF GUARANTEE AND STORAGE CONDITIONS

24 months from date of the manufacture, keep in original unopened packaging stored well closed in a cool dry place.
Bag: Stacking on 2 levels maximum with cardboard spacer in between / Big-Bag: No stacking allowed.



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PHYSICAL AND CHEMICAL PROPERTIES

This data which results from careful tests on representative samples, is provided for information purposes only and does not in any way constitute a guarantee.

Particle size > 2.5 mm	5% max.
Particle size < 1.4 mm	5% max.
Apparent density non tapped	approx. 0.75 g/cm ³
Apparent density tapped	approx. 0.80 g/cm ³
Humidity	approx. 0.5%
Number of particles per gram	approx. 150

PACKAGING

25 kgs bags (1000 kgs pallet). 500 kgs big bags (500 kgs pallet).

USE

LABELING RECOMMENDATIONS:

For use in premixtures or in compound feeds.

METHODS OF ANALYSIS

- Internal method, Reference R506: Titration of methionine by Liquid Chromatography.
- Internal Method, reference R708. Determination of release rates, protection and methionine and lysine content in Smartamine® M and Smartamine® ML.

SAFETY INFORMATION

Product MSDS (Material Safety Data Sheet) available on www.quickfds.com.

REGULATION

EU : Amino acids, their salts and analogues. 3c303. DL-methionine protected with vinylpyridine/styrene copolymer. DL-methionine: min.74%.

3c303 - Regulation N° 469/2013 of 22 May 2013.



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All ruminants.

For premixtures or compound feeds.

- United States: FDA – 21 CFR – Part 573
Beef cattle: Federal Register, March 5, 1992.
Dairy cows: Federal Register, March 21, 1996.

Smartamine M is also authorized in many other countries.

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