# MetaSmart<sup>®</sup> Dry

#### **Quality Standard**

#### 1. Description

MetaSmart Dry is a powder source of metabolizable methionine for ruminants. It is the isopropyl ester of the HMB (2-hydroxy-4methyl (thio) butanoic acid), also known as HMBi, adsorbed onto a silicon dioxide carrier.

#### 2. Composition

HMBi (isopropyl ester of 2-hydroxy-4-methyl (thio) butanoic acid): CAS nº [57296-04-5] Chemical formula: CH<sub>3</sub>S-(CH<sub>2</sub>)<sub>2</sub>-CH(OH)-COO-CH-(CH<sub>3</sub>)<sub>2</sub>

Carrier: silica, CAS nº [7631-86-9]. Chemical formula: 10 SiO<sub>2</sub>1H<sub>2</sub>O

### 3. Specifications

Appearance	powder
Color	white to beige
HMBi monomer content	min. 57%
Water content	max. 4%

#### Duration of guarantee

24 months from date of manufacture. Keep in original unopened packaging stored well closed in a cool dry place.

#### 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.

medien dissector	
. median diameter	
. diameter < 125 μm	
. diameter > 500 μm	
Apparent density	
. non tapped	
. tapped	
Flowability	

approx. 300 µm	
5% max.	
10% max.	
approx. 0.75 g/cm <sup>3</sup>	

approx. 0.80 g/cm<sup>3</sup> free-flowing powder (cellular ring assay index > 15)

#### 6. Packaging

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

#### 7. Use

Exclusively for animal nutrition, for ruminants nutrition. FU:

. HMBi approved in the EU under nº 3c309 \_REGULATION (EU) No 469/2013 of 22 May 2013, in premixtures or in compound feeds, for all ruminants. Silica: Regulation 1831/2003/EC.

United States:

. HMBi: FDA non objection letter, Feb. 2004

. Silica: AAFCO – Feed ingredient definition

### 8. Methods of analysis

Internal method, reference: Z 047 Dosage by HPLC/UV.

## 9. Safety

Product MSDS (Material Safety Data Sheet) available on www.quickfds.com. Register on www.quickfds.com to receive automatic updates.

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