



TECHNICAL DATA SHEET

Product Name: Calcium Beta-Hydroxy-Beta-Methylbutyrate (HMB-Ca)

CAS No.: 135236-72-5

1. Product Description

Calcium Beta-Hydroxy-Beta-Methylbutyrate (HMB-Ca) is a white crystalline powder derived from the metabolite of L-leucine. It is widely used in nutraceuticals and functional food formulations for muscle health, recovery, and performance enhancement.

2. Specifications

Item	Specification
Appearance	White crystalline powder
Odor	Characteristic
Assay (HPLC)	≥ 99.0%
HMB Purity	≥ 84.0%
Calcium (Ca ²⁺)	13.6% – 14.8%
Bulk Density	0.3 – 0.6 g/ml
Loss on Drying	≤ 7.0%

3. Heavy Metals

Item	Specification
Total Heavy Metals	≤ 10 ppm
Arsenic (As)	≤ 1.0 ppm
Lead (Pb)	≤ 3.0 ppm
Mercury (Hg)	≤ 0.1 ppm
Cadmium (Cd)	≤ 1.0 ppm

4. Microbiological Data

Item	Specification
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
Escherichia coli	Absent
Salmonella	Absent
Staphylococcus aureus	Absent

5. Applications

- Nutritional supplements
 - Sports nutrition products
 - Functional foods and beverages
 - Protein powders and premixes
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6. Packaging

Packed in double-layer plastic bags or fiber/cardboard drums.

7. Storage

Store in a cool, dry place, tightly sealed, protected from light.

8. Shelf Life

24 months when properly stored under recommended conditions.

9. Safety Information

Refer to the Material Safety Data Sheet (MSDS) for detailed safety and handling information.