

Nutrition Analysis Center

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 Client Code: 
ANALYTICAL REPORT

AR-23-QD-203113-01

 Received On: 25Jul2023
 Reported On: 04Aug2023

Eurofins Sample Code: 464-2023-07251064	Sample Registration Date: 25Jul2023
Client Sample Code: ZHMB 23-22799	Condition Upon Receipt: acceptable, non-perishable
Sample Description: HMB	Sample Reference:

M906K - Calcium HMB	Reference Internal method	Accreditation	Completed 03Aug2023	Sub 1
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Parameter	Result	Dry Basis
Calcium Hydroxy-3-Methylbutyrate	94.0 %	101 %

QD06Q - Arsenic (Mwd-ICP-MS)	Reference J. AOAC vol. 90 (2007) 844-856 (Mod)	Accreditation ISO/IEC 17025:2017 A2LA 2927.01	Completed 01Aug2023
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Parameter	Result	Dry Basis
Arsenic (As)	0.051 mg/kg	0.055 mg/kg

QD06R - Mercury (Mwd-ICP-MS, Most Matrices)	Reference J. AOAC vol. 90 (2007) 844-856 (Mod)	Accreditation ISO/IEC 17025:2017 A2LA 2927.01	Completed 01Aug2023
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Parameter	Result	Dry Basis
Mercury (Hg)	<0.010 mg/kg	<0.011 mg/kg

QD06S - Lead (Mwd-ICP-MS)	Reference J. AOAC vol. 90 (2007) 844-856 (Mod)	Accreditation ISO/IEC 17025:2017 A2LA 2927.01	Completed 01Aug2023
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Parameter	Result	Dry Basis
Lead (Pb)	0.022 mg/kg	0.024 mg/kg

QD06T - Cadmium (Mwd-ICP-MS)	Reference J. AOAC vol. 90 (2007) 844-856 (Mod)	Accreditation ISO/IEC 17025:2017 A2LA 2927.01	Completed 01Aug2023
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Parameter	Result	Dry Basis
Cadmium (Cd)	<0.010 mg/kg	<0.011 mg/kg

Client Code: [REDACTED]

ANALYTICAL REPORT

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QD148 - Moisture by Vacuum Oven	Reference AOAC 925.09	Accreditation ISO/IEC 17025:2017 A2LA 2927.01	Completed 28Jul2023
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Parameter	Result	Dry Basis
Moisture and Volatiles - Vacuum Oven	6.7 %	

Subcontracting partners:
1 - Eurofins Botanical Testing US Brea, California

Respectfully Submitted,



Loreen Jones
Loreen Jones
Support Services Coordinator

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinsus.com/terms_and_conditions.pdf | ✓ Indicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

23-22799
ZHMB

#19123
JUL 26 2023
GFB
7:40

CERTIFICATE OF ANALYSIS



Calcium 3-Hydroxy 3-Methyl Butyrate(HMB), Monohydrate

Item No.	HMB001	Mfg Date	May 15, 2023
Lot No.	HM20230524	Retest Date	May 14, 2026

Item	Method	Specification	Results
Physical Properties			
Appearance	Visual	White powder	Complies
Bulk Density	USP<616>	NLT 0.55 g/ml	0.61g/ml
Tap Density	USP<616>	NMT 0.90 g/ml	0.80g/ml
Particle Size	USP<786>	100% through USS#20 (850 micron)	100%
Analytical			
CaHMB	HPLC	98.0-103.0%	100.9%
HMB	HPLC	77.0-82.0%	81.6%
Dimethylacrylic acid	HPLC	NMT 150 ppm	2ppm
Calcium (Ca ²⁺)	USP<541>	13.0-15.0%	13.6%
Acetate	HPLC	NMT 1.0%	0.1%
Moisture	USP<921 I>	5.0-7.5%	5.6%
Arsenic (As)	USP<730>/USP<852>	NMT 1.00 ppm	<0.20ppm
Lead (Pb)	USP<730>/USP<852>	NMT 1.00 ppm	<0.20ppm
Microbial			
Total Aerobic	USP<61>	NMT 1,000cfu/g	10cfu/g
Yeast & Mold	USP<61>	NMT 100cfu/g	<10cfu/g
E. coli	USP<62>	Negative	Negative
Salmonella	USP<62>	Negative	Negative

Prepared by Shan Liu

Approved by Loa M Date May 24, 2023
Quality Manager

Manufacturer: TSI Group Co., Ltd.
Manufacturer Address: 2 Jinxiu Road, Lingang Economic Development Zone, Jiangyin, Jiangsu Province, China

REVIEWED

QA/QC: EB

DATE: 7/24/23

John C. Fuller, Jr. Date: 17 JUNE 2023

John C. Fuller, Jr., PhD, Metabolic Technologies, LLC



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