

Certificate of Analysis

Sample Name:	TXHMB-CA SALT USA	Eurofins Sample:	10005729
Project ID	██████████-20201104-0133	Receipt Date	04-Nov-2020
PO Number	28432	Receipt Condition	Ambient temperature
Lot Number	20-17247	Login Date	04-Nov-2020
Sample Serving Size		Date Started	04-Nov-2020
Description	SAMPLE ID ZHMB	Sampled	Sample results apply as received
		Online Order	30

Analysis	Specifications	Result
Moisture (Karl Fischer method)		
Karl Fischer Moisture		5.09 %
Calcium HMB by UPLC		
Calcium Hydroxy-3-Methylbutyrate Monohydrate	98.0 - 103.0 %	102 % (on Dry Basis)

Method References	Testing Location
Calcium HMB by UPLC (MISC_OC) Internally Developed Method	Food Integrity Innovation-Brea 2951 Saturn Street, Unit C Brea, CA 92821 USA
Moisture (Karl Fischer method) (OC_KFMO_S) The United States Pharmacopeia, Fortieth Revision, <921>, Method 1a, The United States Pharmacopeial Convention, Rockville, MD (2017).	Food Integrity Innovation-Brea 2951 Saturn Street, Unit C Brea, CA 92821 USA

Testing Location(s)	Released on Behalf of Eurofins by
Food Integrity Innovation-Brea Eurofins Food Chemistry Testing US, Inc. 2951 Saturn Street Unit C Brea CA 92821 800-675-8375	Robert Grahn - Manager

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.

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Metabolic Technologies, LLC

Partners in Innovation

CERTIFICATE OF ANALYSIS



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

Item No.	HMB001	Mfg Date	Jul.11,2020
Lot No.	HM20200712	Retest Date	Jul.10,2023

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

Prepared by Shan Liu
 Approved by EB Date Jul. 24, 2020
 Quality Manager
 TSI (China) Co., Ltd.

Manufactured by TSI (China), Co., Ltd. Shanghai, CHINA

John C. Fuller, Jr. Date: 8-AUG-2020
 John C. Fuller, Jr., PhD, Metabolic Technologies, LLC

REVIEWED
 QA/QC: EB Date: 11/4/2020