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CERTIFICATE OF ANALYSIS

Work Order Number:

6091642

Date Reported 10/13/2016
Date Received 09/15/2016

Customer # AS956
Customer P.O.

CERTIFICATE OF ANALYSIS

L-Theanine
(L-γ-glutamylethylamide)

Material Lot #: 2016072301 Manufacture Date: 07/17/2016
Country of Origin: China Expiration Date: 07/16/2019

Analysis	Claim	Result
L-Theanine	≥99.0%	99.5%

Test	Specification	Result
Appearance	White Powder	Complies
Specific Rotation	(+7.5°)-(+8.5°)	+8.1°
Solution Color (1.0g/20ml)	Clear, Colorless	Complies
Chloride	<0.02%	Complies
Residue on Ignition	<0.2%	Complies
PH	5.0-6.0	5.8
Heavy Metals	≤10 ppm	10 ppm
Arsenic	≤3 ppm	3 ppm
Assay	98.0%-102.0%	99.5%

Supplement Testing

Sample#: 6091642-01
Description: L-Theanine / 2016072301
Date and Time Sampled: 9/14/2016 0:00
Analysis Performed by: Microbac Laboratories Inc., Pittsburgh Division

Microbiology Analysis	Method	Qualifier	Result	Units	Date	Time	Tech
Aerobic Plate Count	CMMEF 4th 7.62		< 10	cfu per gram	9/27/16	11:15	ALK
Coliform	CMMEF 4th 8.935		< 10	cfu per gram	9/27/16	11:15	ALK
E. coli	CMMEF 4th 8.935		< 10	cfu per gram	9/27/16	11:15	ALK
Mold	CMMEF 4th 20.51		< 10	cfu per gram	9/27/16	11:15	ALK
Salmonella	AOAC 2013.09		Negative	per 25 grams	9/27/16	14:25	JTA
Yeast	CMMEF 4th 20.51		< 10	cfu per gram	9/27/16	11:15	ALK

Food Chemistry Analysis	Method	Qualifier	Result	Units	Date	Time	Tech
L-Theanine	LC/MS/MS		98.0	%	9/30/16	12:59	HEF
NMR	NMR		See Attached	No Units	10/03/16	12:05	MMS

Analysis Performed by: Microbac Laboratories, Inc. - Chicagoland

Metals Analysis	Method	Qualifier	Result	Units	Date	Time	Tech
Arsenic	SW-846 6020B		0.043	mg/Kg	9/30/16	13:49	RPL
Cadmium	SW-846 6020B		<0.0091	mg/Kg	9/30/16	13:49	RPL
Lead	SW-846 6020B		0.11	mg/Kg	9/30/16	13:49	RPL
Mercury	SW-846 6020B		<0.0018	mg/Kg	9/30/16	13:49	RPL

The Theanine samples were dissolved in CDCL3 and the L-Theanine sample was dissolved in D2O so you can make sure solvent peaks are accounted for. No water suppression was performed on the sample in D2O but we have the option should you need it for future.

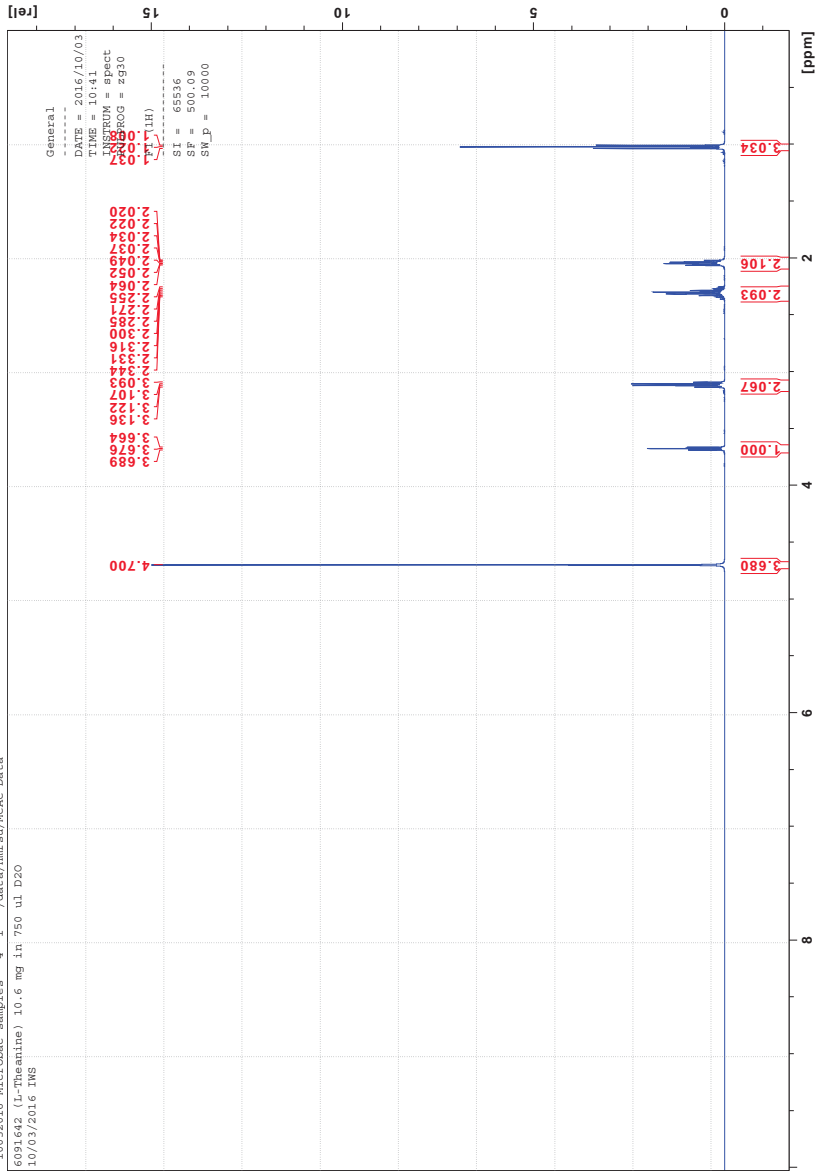
The data and other information contained in this report, as well as any accompanying documents, represent only the sample(s) analyzed. They are reported upon the condition that they are not to be reproduced wholly or in part for advertising or other purposes without the written approval from the laboratory.

L-Theanine should be stored at or below room temperature in a tightly sealed durable container.
L-Theanine should be protected from excess heat, direct sunlight, excess humidity and moisture.
L-Theanine has a stable shelf life of 3 years from the date of manufacture when properly stored.

Microbac Laboratories, Inc.

100 Marshall Drive Warrendale, PA 15086 | 724-772-0610 p | 724-772-1686 f | www.microbac.com

"10032016 Microbac samples" 4 1 "data/mnseu/MCAC Data"
6091442 (L-Threonine) 10.6 mg in 750 ul D2O
10/03/2016 EHS



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