



LIFTMODE
47 W. Polk St. STE 100-241
Chicago, IL 60605

liftmode@liftmode.com
www.liftmode.com

CERTIFICATE OF ANALYSIS

L-Theanine

(L-γ-glutamylethylamide)

Material Lot #: 20151023 Manufacture Date: 03/31/2015
Country of Origin: China Expiration Date: 03/30/2018

Analysis	Claim	Result
L-Theanine	≥99.0%	99.2%

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%	0.012%
Residue on Ignition	<0.2%	0.09%
PH	5.0-6.0	5.7
Heavy Metals	≤10 ppm	8 ppm
Arsenic	≤3 ppm	Complies
Assay	98.0%-102.0%	99.2%

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.



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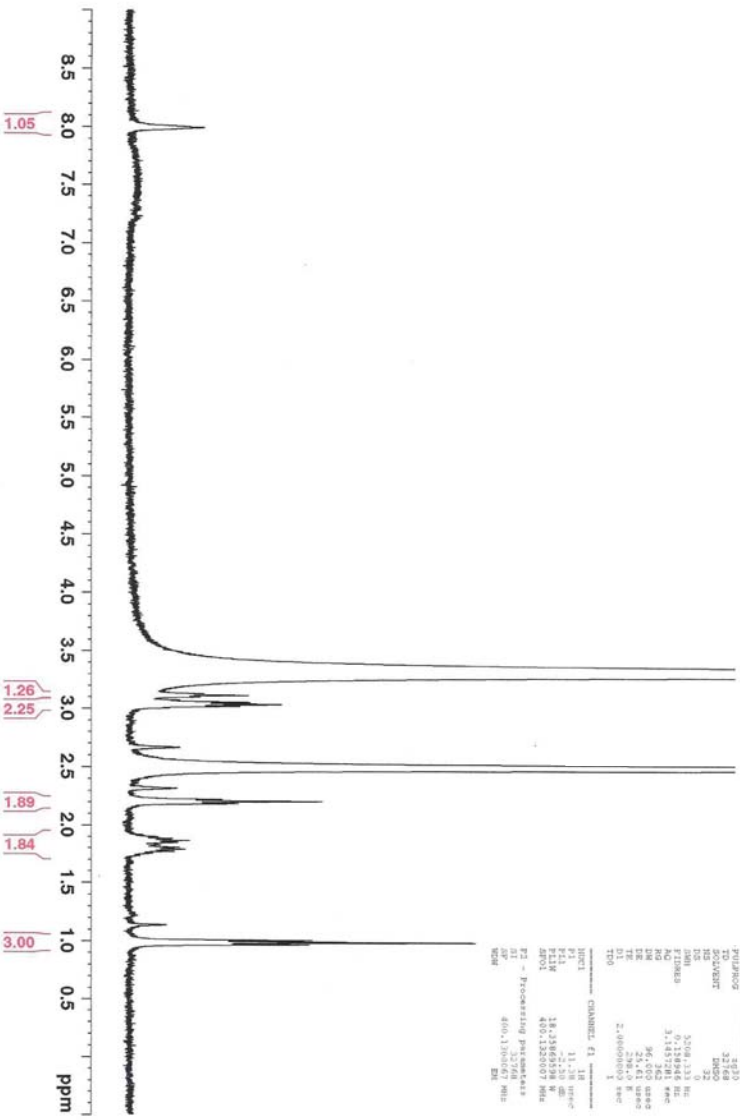
Product Name	L-Theanine	Client Lot Number	20151023
Report Date	04/16/16	Order #	SNT_0140

Test	Method	Result
Identification	H-NMR	Conforms
Assay	HPLC	100.5%
Heavy Metals	ICP-MS	ppm
Arsenic	ICP-MS	<0.001
Cadmium	ICP-MS	<0.001
Lead	ICP-MS	<0.001
Mercury	ICP-MS	<0.001
Total Plate Count	AOAC 966.23/ FDA BAM 8 th ED Rev A	<100 cfu/g
Yeast	FDA BAM 8 th ED Rev A	< 10 cfu/g
Mold	FDA BAM 8 th ED Rev A	<10 cfu/g
E. coli	AOAC 966.24/ FDA BAM 8 th ED Rev A	<3.0 MPN/g
Coliform	AOAC 966.24/ FDA BAM 8 th ED Rev A	<3.0 MPN/g
Salmonella	AOAC 967.26, 967.27/ FDA BAM 8 th ED Rev A	Negative

Collin Thomas *Collin Thomas*
Laboratory Manager

04/16/2016 *4/16/16*
Date

¹H NMR of L-Theanine in DMSO
 Lot # 6924
 400 MHz
 Coarse Analytical
 04-05-16



NUMERIC DATA PARAMETERS
 NUMBER OF SCANS 12
 AVERAGE 1
 CHANNEL F1
 F2 - Acquisition Parameters
 Name 16.42
 INSTRUM spect
 PULPROG zgpg30
 PROCNO 5
 F1 400.132607 MHz
 F2 400.132607 MHz
 SOLVENT DMSO
 NS 0
 DS 0
 SWH 5078.118 Hz
 FWHM 0.30 Hz
 AQ 2.185281 sec
 INJ 2.000000 sec
 DE 2.000000 sec
 TE 300.2 K
 TR 2.000000 sec
 TI 1.000000 sec
 D1 2.0000000 sec
 DELTA 1.0000000 sec

----- CHANNEL F1 -----
 F1 11.38 MHz
 F2 18.25846558 MHz
 FILE 400.132607 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.130667 MHz
 WDW EM