



Certificate of Analysis

47 W Polk St. STE 100-241
Chicago, IL 60605
liftmode@liftmode.com

LiftMode

DL-Phenylalanine

(2-amino-3-phenylpropanoic acid)

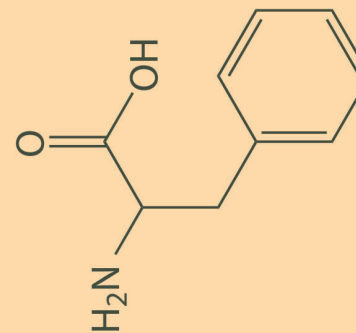
Material Lot #: 20161006 Test Date: 04/04/2021
Country of Origin: China Re-Test Date: 04/01/2024

Analysis	Claim	Result
DL-Phenylalanine	≥99%	100.3%

Test	Specification	Result
Identification (H-NMR)	Conforms to Structure	Conforms
DL-Phenylalanine (HPLC)	≥99%	100.3%
Moisture (Loss on Drying)	≤0.2%	0.1%
Heavy Metals		
Lead	≤1 ppm	<0.00500 ppm
Mercury	≤1 ppm	<0.00500 ppm
Cadmium	≤1 ppm	<0.00500 ppm
Arsenic	≤1 ppm	<0.0100 ppm
Total Aerobic Plate Count		
Yeast	<100 cfu/g	<10 cfu/g
Moulds	<100 cfu/g	<10 cfu/g
Escherichia coli	<10 cfu/g	<10 cfu/g
Coliforms	<10 cfu/g	<10 cfu/g
Salmonella	Not Detected per 25 g	Not Detected per 25 g
Staphylococcus aureus	<10 cfu/g	<10 cfu/g

DL-Phenylalanine should be stored at or below room temperature in a tightly sealed durable container. DL-Phenylalanine should be protected from excess heat, direct sunlight, excess humidity, and moisture. DL-Phenylalanine has a retesting period of 3 years from the date of analysis when properly stored.

DL-PHENYLALANINE



Main Cautions

- Side effects of larger serving sizes of DL-Phenylalanine may include heartburn, nausea, headaches, and increased blood pressure.
- Do not exceed the recommended serving size for this supplement. Consult your doctor before using DL-Phenylalanine if you have any underlying medical conditions.
- There is insufficient information as to the safety of DL-Phenylalanine for pregnant and breastfeeding women.

Usage Tips

- A 1.7cc measuring scoop is included. One level scoop contains approximately one serving, or approximately **1000mg of DL-Phenylalanine**. As a dietary supplement, take 1-2 servings 1-2 times per day. Start at the lower suggested quantity to assess response.
- It is safe to stack DL-Phenylalanine with other supplements, so long as the amount consumed does not exceed the suggested serving size.
- The benefits of DL-Phenylalanine are most effective when they are supported by a healthy diet and plenty of exercise.

Main Benefits

- DL-Phenylalanine is a combination of two enantiomers of Phenylalanine. This dietary supplement is best-known for its mood-boosting properties.
- DL-Phenylalanine interacts with receptors in the brain that help to boost mood, promote relaxation, increase energy, and reduce sensations of pain.
- DL-Phenylalanine is also being studied for a variety of potential developments, especially for supporting healthy cognitive performance.

ANALYTICAL REPORT

AR-21-OH-017961-101

Eurofins Sample Code: 477-2021-03230137	Sample Registration Date: 23Mar2021
Client Sample Code: 20103001	Condition Upon Receipt: acceptable, 20.5°C
Sample Description: Acetyl-L-Carnitine (ALCAR)	Sample Reference: 20103001
UMDTC - Salmonella species - AOAC-R1 121501	Reference ISO/IEC 17025:2017
	Accreditation AOAC-R1 121501
	AZLA 3329.07

Parameter Salmonella	Result Not Detected per 25 g
UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

Eurofins Sample Code: 477-2021-03230138	Sample Registration Date: 23Mar2021
Client Sample Code: 20161006	Condition Upon Receipt: acceptable, 20.5°C
Sample Description: DL-Phenylalanine	Sample Reference: 20161006
UMVSE - Aerobic Plate Count - CIMMEF Chapter 8.72	Reference ISO/IEC 17025:2017
	Accreditation AOAC-R1 121501
	AZLA 3329.07

Parameter Aerobic Plate Count	Result 10 (est) cfu/g
UMIB1 - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

Parameter Yeast	Result < 10 cfu/g
Parameter Moulds	Result < 10 cfu/g
UMGWS - Total Coliforms - CIMMEF Chapter 8.7	Reference CIMMEF Chapter 8.7
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

Parameter Coliforms	Result < 10 cfu/g
UMCB1 - E. coli - CIMMEF Chapter 9.933	Reference CIMMEF Chapter 9.933
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

Parameter Escherichia coli	Result < 10 cfu/g
FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference AOAC 2011.19 and 983.14 (modified)
	Accreditation ISO/IEC 17025:2017
	AZLA 2918.01

Parameter Salmonella	Result Not Detected per 25 g
UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07



Colmaric Analytical, LLC

812 Meadowlark Lane, Goodlettsville, TN 37072
Telephone: 615-239-8604

Certificate of Analysis

Synparent LLC
47 W Polk Street, 100-241
Chicago, IL 60654

Product Name DL-Phenylalanine	Product Lot Number 20161006
Report Date 12/04/2018	Laboratory Number 8328
Description DL-Phenylalanine Assay	Method 1H NMR
Identification Lead	Result Conforms
Lead	Result 98.9 %
Arsenic	Result <0.001 ppm
Cadmium	Result <0.001 ppm
Mercury	Result 0.026 ppm
	Result <0.001 ppm

Michael Robil
Michael Robil
QA Auditor

12/04/18
12/04/2018
Date

The results stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

ANALYTICAL REPORT

AR-21-OH-017961-101

Eurofins Sample Code: 477-2021-03230138	Sample Registration Date: 23Mar2021
Client Sample Code: 20161006	Condition Upon Receipt: acceptable, 20.5°C
Sample Description: DL-Phenylalanine	Sample Reference: 20161006
FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference ISO/IEC 17025:2017
	Accreditation AOAC 2011.19 and 983.14 (modified)
	AZLA 2918.01

Parameter Arsenic	Result <10.0 ppb
Parameter Cadmium	Result <5.00 ppb
Parameter Lead	Result <5.00 ppb
Parameter Mercury	Result <5.00 ppb
FS0A8 - Loss on Drying	Reference Current USP/NF
	Result DL-Phenylalanine
	0.1 %

Parameter Method Reference	Result DL-Phenylalanine
Parameter Moisture	Result 0.1 %
UMDTC - Salmonella species - AOAC-R1 121501	Reference AOAC-R1 121501
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

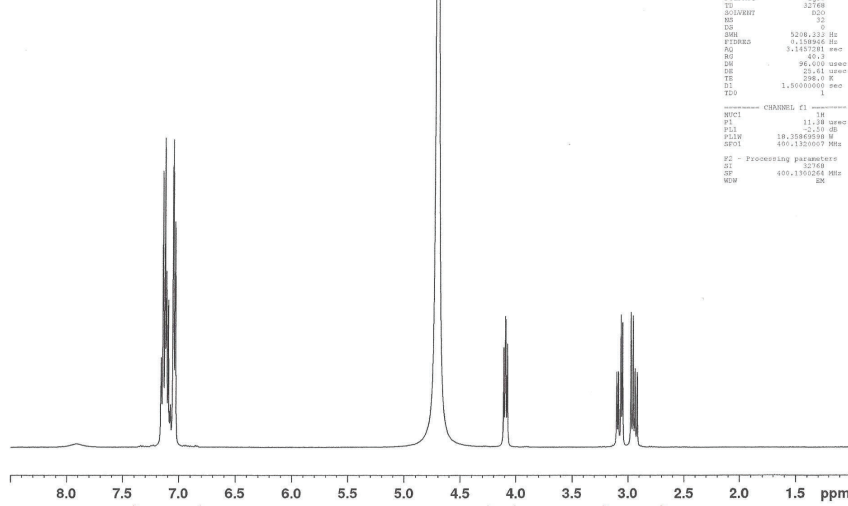
Parameter Salmonella	Result Not Detected per 25 g
UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12
	Accreditation ISO/IEC 17025:2017
	AZLA 3329.07

Parameter Staphylococcus aureus	Result < 10 cfu/g
FSFCC - Testing by FCC Monograph Assay	Reference Current FCC
	Result 100.3 %

Parameter Assay	Result 100.3 %
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Subcontracting partners:
1 - Eurofins Food Chemistry Testing US Madison, WI

1H NMR of DL-phenylalanine in D2O + DCI
Lot # 8328
Colmaric Analytical
400 MHz
03-08-17



Current Data Parameters
NAME: Me88-2017-03main1
EXPNO: 1
PROCNO: 1
F2 - Acquisition Parameters
Date_: 20170308
Time: 16:19
INSTRUM: spect
PROBHD: 5 mm PABBO 500
PULPROG: zgpg30
SOLVENT: D2O
NS: 512
DS: 0
SWH: 5206.833 Hz
FIDRES: 0.108966 Hz
AQ: 0.1457281 sec
RG: 400
RG2: 96.650 usec
AQ2: 25.61 usec
TE: 300.2 K
TD: 1,900,000.000
F2 - Processing parameters
SI: 32768
SF: 400.1300254 MHz
WDW: EM