

LIFTMODE

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

liftmode@liftmode.com
www.liftmode.com

CERTIFICATE OF ANALYSIS

DL-Phenylalanine (2-amino-3-phenylpropanoic acid)

Material Lot #: 201607010
Country of Origin: China

Testing Date: 07/18/2016
Retesting Date: 07/17/2018

Analysis	Claim	Result
DL-Phenylalanine	≥99.0%	99.3%

Test	Specification	Result
Appearance	White crystals or crystalline powder	Complies
Loss on drying	≤0.20%	0.10%
Residue on ignition	≤0.30%	0.14%
Heavy Metals	≤10 ppm	Complies
Arsenic (As ₂ O ₃)	≤1 ppm	Complies
Cadmium (Cd)	≤1 ppm	Complies
Lead (Pb)	≤3 ppm	Complies
Mercury (hg)	≤0.1 ppm	Complies
Total Plate Count	≤1000 cfu/g	Complies
Yeast & Mould	≤100 cfu/g	Complies
Coliforms	Negative	Negative
E. Coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus Aureus	Negative	Negative

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 stable shelf life of 3 years from the date of manufacture when properly stored.

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DL-Phenylalanine

(2-amino-3-phenylpropanoic acid)

Product Name	DL-Phenylalanine	Product Lot Number	201607010
Report Date	11/12/16	Laboratory Number	7886

Test	Method	Results
DL-Phenylalanine	CA-085 (HPLC-UV)	99.2%
Identification – DL-Phenylalanine	¹ H-NMR	Positive
Lead	ICP-MS USP <730>	0.010 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	<0.001 ppm
Mercury	ICP-MS USP <730>	0.002 ppm

Connor Holt
QA Auditor

Connor Holt

11/12/2016
Date

11-12-16