

Title: **L-Ornithine-L-Aspartate, 100 grams Powder**

Allergy Research Group® / NutriCology®

Document No.: 76100CA

Revision: 005

Certificate of Analysis

Part Number	76100		
Lot Number	0820005		
Product Count & Form	100 grams (3.5 oz) powder		
Packaging, Closure	250cc Amber glass bottle		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	08/2023
Label Number, Size	76100L, H		
Retain Sample	2 bottles total		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color	QC011	White, crystalline powder	Complies
Product Odor / taste	QC011	Characteristic Odor / taste	Complies

Purity

Attribute	Method / SOP	Specification	Test Result
Ornithine & Aspartic acid (free)	Free amino acids (HPLC)	> 97.5 %	97.9%

*Production and Process Control

Identification \ Chemical \ Heavy Metals


Attribute	Method / SOP	Specification	Test Result
Identity	Raw Material Certificate of Analysis Review	Approved	Complies
Identity	Near Infrared Spectroscopy	Matches Reference	Complies
Arsenic	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.090 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.906 mcg/day

*Production and Process Control, BQL – Below Quantitation Level, Ψ – Permitted Daily Exposure

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 ³ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 ² CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 ² CFU/g	<10 CFU/g
Escherichia coli	USP/ AOAC/ FDA BAM	None Detected	None Detected
Staphylococcus aureus	USP/ AOAC/ FDA BAM	None Detected	None Detected
Salmonella	USP/ AOAC/ FDA BAM	None Detected	None Detected

*Production and process control

Approval: 	Casey Van Wagoner 2020.09.11 12:05:39 -06'00'	Date: 11SEP2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: L-ornithine L-Aspartate
Sample ID: 86100
Lot No: 0820005
Location:
Received: 8/24/2020
Completed: 8/31/2020

Client: Allergy Research Group
2300 S Main St
Salt Lake City, UT 84115

Lab No: 201947-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.015	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.151	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	<0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	<0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Total Aerobic Microbial Count	<10	CFU/g	<= 1,000 CFU/g	USP <2021>
Coliform	<10	CFU/g	<= 100 CFU/g	AOAC 991.14
E.Coli	Absent	per 10 grams	Absent	USP <2022>
Staphylococcus aureus	Absent	per 10 grams	Absent	USP <2022>
Salmonella	Absent	per 10 grams	Absent	USP <2022>
Total Yeast & Mold	<10	CFU/g	<= 100 CFU/g	USP <2021>
Yeast *	<10	CFU/g	<= 100 CFU/g	USP <2021>
Mold *	<10	CFU/g	<= 100 CFU/g	USP <2021>

* For informational purposes only.

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By:


Kristina Noll - Quality Technician

Dated:

8/31/2020

Printed: 8/31/2020 4:36:48 PM





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E-Mail: Karine@MicroQualityLabs.com

Customer: Allergy Research Group, LLC
Address: 2300 North Loop Road
Alameda, CA 94502

ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: L-ORNITHINE L-ASPARTATE
Product Code: 86100
Batch/Lot: 0820005
MQL Accession: 200824-0162

PO#: 77945-21
Sample Description: FG
Rush: N/A
Received Date: 08/24/20

Test Requested:	Test Method:	Specification:	Results:
L-Ornithine- L-Aspartate	MQLTM-0194 By HPLC	NLT 97.5%	97.9%


Prepared By:


Diana Zavala/Document Control Specialist

SEP 08 2020

09/08/20

Reviewed By:


Andrea Orozco/Quality Assurance Supervisor

SEP 08 2020

09/08/20

The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.

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