

Title: **L-Tyrosine 500 mg, 100 Vegetarian Capsules**

Allergy Research Group® / NutriCology®

Document No.: 70630CA

Revision: 010

Certificate of Analysis

Part Number	70630		
Lot Number	00713		
Product Count & Form	100 Vegetarian Capsules		
Packaging, Closure	225 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	07/2023
Label Number, Size	70630L, H		
Retain Sample	2 bottles		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	White, clear size "00"	Complies
Product Weight Variation	QC012	Meets USP <2091> 620 – 750 mg	Passes, 721 mg
Disintegration Time	QC018	Meet USP <2040>	Passes, 22:00 mins

Purity / Strength per Capsule

Active Ingredient	Label Claim	Specification	Test Result
L-Tyrosine	500 mg	100-150% LC by HPLC	509 mg/cap
Other Ingredients: Hydroxypropyl Methylcellulose, L-leucine			

*Production and Process Control

Identification \ Chemical \ Heavy Metals


Attribute	Method / SOP	Specification	Test Result
Identity	Bulk Certificate of Analysis Review	Approved	Approved
Identity	Near Infrared Spectroscopy	Matches reference	Complies
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.080 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.182 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.015 mcg/day

Ψ – Permitted Daily Exposure, *Production and Process Control, BQL-Below Quantitative Limit

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 2020.10.30 09:17:12 -06'00'	Date: 30OCT2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

 Description: L-Tyrosine
 Sample ID: 40630
 Lot No: 00713
 Location:
 Received: 7/14/2020
 Completed: 7/21/2020

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

Lab No: 199806-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.084	µg / g	< 0.5 µg / g	ICP-MS USP <730>
Lead	0.007	µg / g	< 0.5 µg / g	ICP-MS USP <730>
Arsenic	<0.001	µg / g	< 0.5 µg / g	ICP-MS USP <730>
Cadmium	0.037	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:

7/21/2020

Printed: 7/21/2020 4:10:17 PM





Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing

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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-TYROSINE
Product Code: 40630
Batch/Lot: 00713
MQL Accession: 200714-0294

PO#: 77756-10
Sample Description: BULK
Rush: N/A
Received Date: 07/14/20

Test Requested:	Test Method:	Specification:	Results:
L-Tyrosine	MQLTM-0214 By HPLC	NLT 500 mg/cap	509 mg/cap

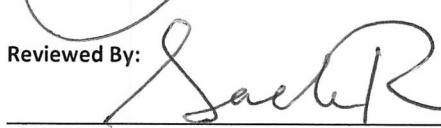
Prepared By:


Diana Zavala/Document Control Specialist

JUL 22 2020

07/22/20

Reviewed By:


Sade Rodriguez / QA Reviewer

JUL 22 2020

07/22/20

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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