

Title: **5-HTP L-5-Hydroxytryptophan**

Allergy Research Group® / NutriCology®

Document No.: 72810CA

Revision: 008

**Certificate of Analysis**

<b>Part Number</b>	72810		
<b>Lot Number</b>	00617		
<b>Product Count &amp; Form</b>	150 Vegetarian Capsules		
<b>Packaging, Closure</b>	120 cc bottle, desiccant, rayon/cotton		
<b>Storage Condition</b>	Room Temperature		
<b>Shelf Life</b>	24 months	Expiration Date	05/2022
<b>Label Number, Size</b>	72810L, D		
<b>Retain Sample</b>	2 bottles		

**ANALYSIS**

**Physical**

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	Clear, size "3"	Complies
Product Weight Variation	QC012	Meets USP <2091> 180 – 220 mg	Passes, 200 mg
Disintegration time	QC018	Meets USP <2040>	Passes, 15:00 mins

**Purity/Strength / Impurities per Capsule**

Active Ingredients	Label Claim	Release Limits	Test Result
5-L-Hydroxytryptophan	50 mg	100 - 150% of LC by HPLC	52 mg
<b>Other Ingredients:</b> Hydroxypropyl Methylcellulose, Microcrystalline Cellulose, 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	Matches Reference
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.004 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.005 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.002 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.005 mcg/day

\*Production and Process Control, Ψ – Permitted Daily Exposure

**Microbiology**

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>3</sup> CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>2</sup> CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>2</sup> 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 2020.10.26 11:23:50 -06'00'	Date: 26OCT2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

## Test Certificate

 Description: 5-HTP  
 Sample ID: 42810  
 Lot No: 00607  
 Location:  
 Received: 6/4/2020  
 Completed: 6/9/2020

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

Lab No: 197689-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.004	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Lead	0.009	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Arsenic	0.006	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Cadmium	0.008	ug/g	< 0.5 ug/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.**

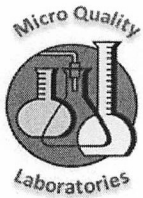
**THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.**

 Results Approved By:   
 Kristina Noll - Quality Technician

Dated: 6/9/2020

Printed: 6/11/2020 1:41:06 PM





# Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing

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E-Mail: [Karine@MicroQualityLabs.com](mailto:Karine@MicroQualityLabs.com)

**Customer:** Allergy Research Group, LLC

**Address:** 2300 North Loop Road

Alameda, CA 94502

## ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: **5-HTP**

Product Code: 42810

Batch/Lot: 00607

MQL Accession: 200605-0275

PO#: 77638

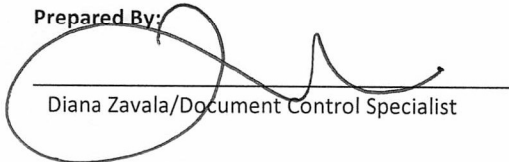
Sample Description: BULK

Rush: N/A

Received Date: 06/05/20

Test Requested:	Test Method:	Specification:	Results:
5-HTP	MQLTM-0208 By HPLC	NLT 50/cap	52 mg


Prepared By:

  
Diana Zavala/Document Control Specialist

JUN 15 2020

06/15/20

Reviewed By:

  
Katherine Carrillo/ Quality Assurance Specialist

JUN 15 2020

06/15/20

*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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