

Title: **Hypothalamus Natural Glandular, 100 Capsules**

Allergy Research Group® / NutriCology®

Document No.: 70810CA

Revision: 011

**Certificate of Analysis**

<b>Part Number</b>	70810		
<b>Lot Number</b>	00607		
<b>Product Count &amp; Form</b>	100 Vegicaps		
<b>Packaging, Closure</b>	225 cc bottle, desiccant, rayon/cotton		
<b>Storage Condition</b>	Room Temperature		
<b>Shelf Life</b>	36 months	Expiration Date	04/2023
<b>Label Number, Size</b>	70810L, H		
<b>Retain Sample</b>	2 bottles per label (4 bottles total)		

**ANALYSIS**

**Physical**

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	Brown, clear size "00"	Complies
Product Weight	QC012	Meets USP <2091> 600 – 800 mg	Passes, 668 mg
Disintegration Time	QC018	Meets USP <2040>	Passes, 27:35 mins.

**Purity/Strength per capsule**

Active Ingredients	Label Claim	Release Limits	Test Result
Hypothalamus substance (Tissue, Bovine)	500 mg	100-150% LC by input	100-150% LC by input*
<b>Other Ingredients:</b> Hydroxypropyl methylcellulose, silicon dioxide, 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	Total Protein by Nitrogen Analyzer	20 – 80%	36.29%
Identity	Near Infrared Spectroscopy	Matches reference	Matches reference
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day <sup>1</sup>	0.073 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day <sup>1</sup>	0.005 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day <sup>1</sup>	0.006 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day <sup>1</sup>	0.071 mcg/day

<sup>1</sup> Heavy metals profile; As, Cd, Hg and Pb tested at raw material stage

**Microbiology**

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>5</sup> CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>4</sup> CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>3</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

Approval: 	Casey Van Wagoner 2020.11.16 17:24:16 -07'00'	Date: 16NOV2020
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## Test Certificate

 Description: Hypothalamus  
 Sample ID: 40810/00607  
 Lot No:  
 Location:  
 Received: 4/29/2020  
 Completed: 5/6/2020

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

Lab No: 194830-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.009	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.106	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.110	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.008	µg/g	< 0.5 µg/g	ICP-MS USP <730>
† Protein	36.29	% wt.	20 - 80 % wt.	AOAC 998.05
Total Aerobic Microbial Count	<10	CFU/g	<= 100,000 CFU/g	USP <2021>
Coliform	30	CFU/g	<= 1,000 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	<= 10,000 CFU/g	USP <2021>
Yeast *	<10	CFU/g	<= 10,000 CFU/g	USP <2021>
Mold *	<10	CFU/g	<= 10,000 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: 5/6/2020

Tests marked with † were done at Atlas Bioscience Labs, LLC, a joint venture with Advanced Laboratories. -  
 1775 S. Pantano Rd - Ste #110, Tucson, AZ 85710

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