

Title: Phyllanthus Complex	
Allergy Research Group® / NutriCology®	
Document No.: 70750CA	Revision: 008

Certificate of Analysis

Part Number	70750		
Lot Number	00604		
Product Count & Form	120 Vegetarian Capsules		
Packaging, Closure	275 cc bottle, desiccant, rayon		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	APR2022
Label Number, Size	70750L, I		
Retain Sample	1 bottle per label (2 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	Tan – Brown, lightly speckled, Size “00”	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 700 mg – 900 mg	Pass, 804 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 17:55 mins

**PPC for HPMC capsules.

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Phyllanthus Amarus (Leaves) Extract	200 mg	100-150% LC by input	100-150% LC by input*
Dandelion (Root) Extract	200 mg	100-150% LC by input	100-150% LC by input*
Milk Thistle (Extract, 80% silymarin)	200 mg (160 mg silymarin)	100-150% LC by HPLC	192.9 mg/capsule

* Production and Process Control

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Identification \ Chemical \ Heavy Metals


Attribute	Method / SOP	Specification	Test Result
Identity	Bulk Certificate of Analysis Review	Approved	Complies
Identity	Near Infrared Spectroscopy	Matches Reference	Complies
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.217 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.065 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	0.0415 mcg/day

BQL: Below Quantitation Level, Ψ – Permitted Daily Exposure, φ - Complies with California Proposition 65 Limits, * Production and Process Control

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 ⁴ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 ³ 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: 	Digitally signed by Kimberly Vennebush Date: 2020.05.26 11:50:48 -06'00'	Date: 26MAY2020
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Test Certificate

Description: Phyllanthus Complex
Sample ID: 40750/00604
Lot No:
Location:
Received: 4/17/2020
Completed: 4/27/2020

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

Lab No: 193755-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.001	ug/g	<= 0.5 ug/g	ICP-MS USP <730>
Lead	0.171	ug/g	<= 0.5 ug/g	ICP-MS USP <730>
Arsenic	0.090	ug/g	<= 0.5 ug/g	ICP-MS USP <730>
Cadmium	0.027	ug/g	<= 0.5 ug/g	ICP-MS USP <730>
† Silymarins	192.9	mg/capsule	>= 160 mg/capsule	HPLC
Total Aerobic Microbial Count	<10	CFU/g	<= 10,000 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	<= 1,000 CFU/g	USP <2021>
Yeast *	<10	CFU/g	<= 1,000 CFU/g	USP <2021>
Mold *	<10	CFU/g	<= 1,000 CFU/g	USP <2021>

* For informational purposes only.

Silymarins analysis performed using HPLC by method adapted from Kvasnicka F, Biba B, Sevcik R, Voldrich M, Kratka J "Analysis of the active components of silymarin" as published in Journal Of Chromatography A 990 (1-2): 239-245 Mar 2003: utilizing methanolic extracts separated on a Waters Symetry 3 μ m (150x4.6mm) and 30 min. gradient elution with 6% ACN changing linearly to 60% ACN, with photodiode array detection and signal extraction at 280nm. Authentic chemical reference material obtained from Sigma-Aldrich.

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:

4/27/2020

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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