

Title: **PhytoCort, 120 Vegetarian Capsules**

Allergy Research Group® / NutriCology®

Document No.: 75840CA

Revision: 009

Certificate of Analysis

Part Number	75840		
Lot Number	00815		
Product Count & Form	120 Vegetarian Capsules		
Packaging, Closure	275 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature	Manufacture Date	08/2020
Shelf Life	36 months	Expiration Date	08/2023
Label Number, Size	75840L, I		
Retain Sample	N/A		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	Brown, clear size "00"	Complies
Product Weight	QC012	Meets USP <2091> 940 – 1030 mg	Pass, 961 mg
Disintegration Time	QC018	Meets USP <2040>	Pass, 20:50 mins.

Purity/Strength

Active Ingredients	Label Claim	Release Limits	Test Result
PhytoCort Blend Containing: Reishi (Ganoderma lucidum) Extract Shrubby Sophora (Sophora flavescens) (Root) Extract Chinese Licorice (Glycyrrhiza uralensis) (Root) Extract Noni (Morinda citrifolia) (Fruit) Extract	800 mg	100-150% LC by input†	100-150% LC by input*

Other ingredients: Hydroxypropyl methylcellulose, L-Leucine

*Production and process control, †due to the matrix or natural variance found in botanical and/or the extraction process used to create specific extracts.

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 µg/day Ψ	0.327 µg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 µg/day Ψ	0.388 µg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 µg/day Ψ	0.296 µg/day

Ψ Permitted Daily Exposure, *Production and process control, BQL – Below Quantitative Level

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:	 Casey Van Wagoner 2020.12.09 15:00:10 -07'00'	Date: 09DEC2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: Phytocort
Sample ID: 45840
Lot No: 00815
Location:
Received: 8/19/2020
Completed: 8/26/2020

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

Lab No: 201709-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.080	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.088	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.105	µg/g	< 0.5 µg/g	ICP-MS USP <730>
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.

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:

8/26/2020

Printed: 8/26/2020 2:59:54 PM



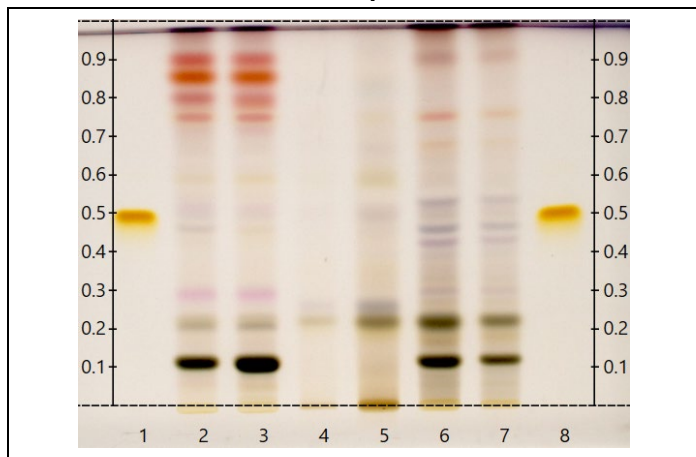
Certificate Issued To:
Allergy Research Group
2300 S. Main St.
South Salt Lake, Utah 84115
United States



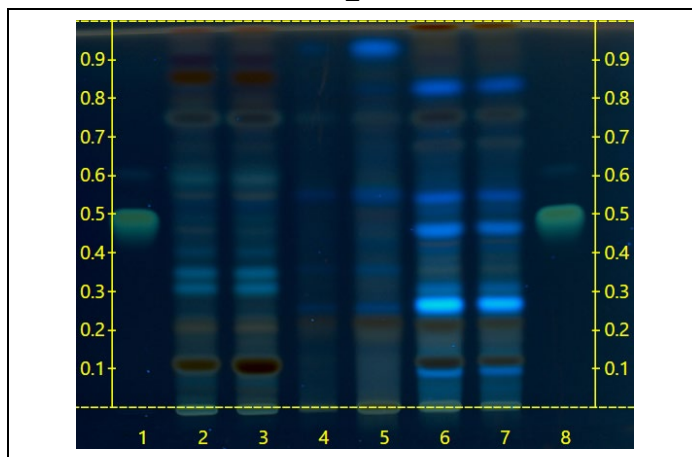
Work performed at:
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Certificate of Analysis: Phytocort (45840/00815)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Allergy Research Group
Title: Phytocort
Plant Part: root
Sample Received: 08/19/20
Sample Packaging: Clear Whirl-Pak
Form of Botanical: capsule powder
Appearance: Grey powdered capsules
Lot Number: (45840/00815) → Lanes 4(0.5µl), 5(3µl)
Sample: 20232KUQ_1
Latin Name: *Sophora flavescens* Aiton [Fabaceae]
Reference Sample: Lane 2(3µl) (QM14902SWH), Lane 3(3µl) (QM04211MYWY) *Sophora flavescens* (root); Lane 6(4µl) (AVA04211SWH), Lane 7(2µl) (AVA04211SWH) *Sophora tonkinensis* (root); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 141319
Sample Preparation: 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: Chloroform: Acetic acid: Methanol: Water [6/3.2/1.2/0.8]
Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007)
(2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)
Reference Standard: Lanes 1(3µl) and 8(3µl) Quercitrin (SLBZ6332, SigAl), Methanol (0000253754, VWR)
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test Sample Phytocort (45840/00815) Lanes 2, 3, 6, 7 are the reference samples used for comparison. This test sample, Phytocort (45840/00815) is not consistent of the chromatographic profile of *Sophora flavescens* reference samples used above. The chromatographic profile demonstrated above cannot distinguish the presence of *Sophora flavescens* root from other components in the blend. **As per the analysis performed above, the matrix or concentration of the botanical tested for, the limits of this method & the technology used to make this determination, this analysis is unable to indicate the presence of *Sophora flavescens* root.**

NOTE: The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 08/25/20

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 45840/00815. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2020 Alkemist Labs, Inc. All Rights Reserved