

Title: **Artemisinin 100 mg, 90 Capsules**

Allergy Research Group® / NutriCology®

Document No.: 72160CA

Revision: 012

Certificate of Analysis

Part Number	72160		
Lot Number	0398		
Product Count & Form	90 Vegetarian Capsules		
Packaging, Closure	100 cc bottle, desiccant, rayon		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	06/2022
Label Number, Size	72160L, C		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	White, size "3"	Complies
Product Weight Variation	QC012	Meets USP <2091> 180 – 300 mg	Pass, 237 mg
Disintegration Time	SOP 522	Meets USP <2040>	Pass

Purity / Strength per Capsule

Active Ingredient	Label Claim	Specification	Test Result
Artemisinin	100 mg	100 - 150% of LC by HPLC	117.3 mg

Other Ingredients

Hydroxypropyl methylcellulose, microcrystalline cellulose, rice hull concentrate, gum Arabic, sunflower oil

*Production and Process Control

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	0.023 mcg/day Ψ
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.016 mcg/day Ψ

BQL - Below Quantitation limit, 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: 	Casey Van Wagoner 2020.08.17 13:42:51 -06'00'	Date: 17AUG2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: Artemisinin
Sample ID: 42160
Lot No: D0398
Location:
Received: 7/8/2020
Completed: 7/15/2020

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

Lab No: 199522-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.009	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.013	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	<0.001	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:

7/15/2020

Printed: 7/15/2020 3:14:30 PM



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Receiving Date: 7/7/2020

CoA Date: 7/25/2020

Certificate of Analysis

Sample Name: Artemisinin

Lot Number: D0398

Sample Description: White Capsuls, Plastic Bag - BULK

Rush:

PO: 7774-7

ANALYSIS

Artemisinin

SPEC

NLT 100 mg/ cap

RESULTS

117.3 mg/cap (PASS)

METHOD

HPLC (JPBA 56
(2011))