

Title: Quercetin 300	
Allergy Research Group® / NutriCology®	
Document No.: 70060CA	Revision: 009

Quercetin Certificate of Analysis

Part Number	70060		
Lot Number	00603		
Product Count & Form	60 Vegetarian Capsules		
Packaging, Closure	150 cc bottle, rayon/cotton, desiccant		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	04/2023
Label Number, Size	70060L, E		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Appearance	SOP 515	Yellow, Clear, Size 00	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 684 – 836 mg	Passes, 802 mg
Disintegration time	SOP 522	Meets USP <2040>	Pass, 15:45 min

Purity/Strength

Active Ingredients	Label Claim	Release Limits	Test Result
Quercetin (95%)	300 mg/cap	100-150% LC by HPLC	305.6 mg
Vitamin C (as Ascorbic Acid)	75 mg/cap	100-150% LC by titration	100-150% LC by titration*
Vitamin E (dl-alpha Tocopheryl Acetate)	70 IU/cap	100-150% LC by HPLC	100-150% LC by HPLC*
Other Ingredients:			
Hydroxypropyl methylcellulose, microcrystalline cellulose, Flo-Gard (silicon dioxide), L-leucine			

*Production and Process Control

Title: Quercetin 300	
Allergy Research Group® / NutriCology®	
Document No.: 70060CA	Revision: 009

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	0.269 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.717 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.101 mcg/day

*Production and Process Control, Ψ – Permitted Daily Exposure, 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: 	Digitally signed by Kimberly Vennebush Date: 2020.05.18 08:38:32 -06'00'	Date: 18MAY2020
---	---	-----------------

If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

 Description: Quercetin 300
 Sample ID: 40060/00603
 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: 193755-02

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.021	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Lead	0.149	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Arsenic	0.056	ug/g	< 0.5 ug/g	ICP-MS USP <730>
Cadmium	<0.001	ug/g	< 0.5 ug/g	ICP-MS USP <730>
† Quercetin	305.6	mg/capsule	>= 300 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.

Quercetin analysis performed using HPLC by method adapted from Ji YB, Xu QS, Hu YZ, Heyden YV "Development, optimization and validation of a fingerprint of Ginkgo biloba extracts by high-performance liquid chromatography" as published in Journal Of Chromatography A 1066 (1-2): 97-104 Feb 25 2005; utilizing linear gradient elution with acetonitrile/0.1% phosphoric acid (from 14/86 to 30/70, v/v, in 40 min) on a Waters Symmetry C18 3 μ m (150 x 4.6mm) column at a temperature of 30°C. Detection performed by scanning PDA (200-400nm) with signal extraction at 311nm for quantification.

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

Printed: 4/27/2020 1:40:29 PM

