

Title: Grape Pips Proanthocyanidins, 90 Vegetarian Caps	
Allergy Research Group® / NutriCology®	
Document No.: 71480CA	Revision: 008

Certificate of Analysis

Part Number	71480		
Lot Number	00401		
Product Count & Form	90 Vegetarian Capsules, desiccant, rayon/cotton		
Packaging, Closure	100 cc bottle		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	03/23
Label Number, Size	71480L, C		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	Brown, Clear, size “3”	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 180 – 250 mg	Passes, 210 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 22:00 min.

Purity/Strength per capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Grape Seed Extract (83% Oligomeric Proanthocyanidins)	100 mg	100-150% LC by HPLC	155.2 mg
Other Ingredients			
Hydroxypropyl Methylcellulose, Microcrystalline Cellulose, L-Leucine			

Identification \ Chemical \ Heavy Metals

Attribute	Method / SOP	Specification	Test Result
Identity	Bulk Certificate of Analysis Review	Approved	Approved
Identity	Near Infrared Spectroscopy	Matches Reference	Complies
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.013 ppm
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.007 ppm
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL Ψ
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.008 ppm


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

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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^4$ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ 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 2020.08.10 10:25:31 -06'00'	Date:10AUG2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: Grape Pips
Sample ID: 41480/ 00401
Lot No:
Location:
Received: 3/24/2020
Completed: 3/31/2020Client: Allergy Research Group
2300 N Loop Rd.
Alameda, CA 94502

Lab No: 191880-01

Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	<= 100,000 CFU/g	USP <2021>
Coliform	<10	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	
Mold *	<10	CFU/g	<= 10,000 CFU/g	

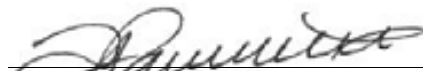
* For informational purposes only.

FDA BAM Method Utilized: 10g sample size

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:


Alisa Farnsworth-Quality Technician

Dated:

3/31/2020

Printed: 3/31/2020 3:57:23 PM



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

Test Certificate

Description: Grape Pips
Sample ID: 41480/ 00401
Lot No:
Location:
Received: 3/24/2020
Completed: 3/31/2020

Client: Allergy Research Group
2300 N Loop Rd.
Alameda, CA 94502

Lab No: 191882-01

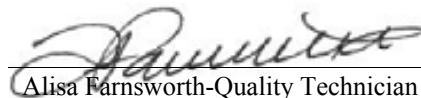
Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	mcg/g	<= 0.5 mcg/g	ICP-MS USP <730>
Lead	0.008	mcg/g	<= 0.5 mcg/g	ICP-MS USP <730>
Arsenic	0.013	mcg/g	<= 0.5 mcg/g	ICP-MS USP <730>
Cadmium	0.007	mcg/g	<= 0.5 mcg/g	ICP-MS USP <730>
† Proanthocyanidins	155.2	mg/cap	>= 83 mg/cap	UV-Vis

Proanthocyanidins analyzed as total vanillin-catechin conjugates using modified methodology of Larry G. Butler et al., "Vanillin Assay for Proanthocyanidins [Condensed Tannins]: Modification of the solvent for Estimation of the degree of Polymerization" as published in J. Agric. Food Chem., 30, 1087-1089, vanillin reagent prepared as 750ml with 15g ammonium iron sulfate in n-butanol/hydrochloric acid (95:5). For the determination of total catechin on 2% sol of initial extract in a 50ml volumetric flask containing 25ml of methanol; 2.5ml of Vanillin reagent added and heated to 95°C for 40mins after cooling diluted to volume with methanol, the absorbance of both the standard solutions and sample is measured at 550nm. Authentic reference material obtained from Sigma-Aldrich.

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Results Approved By:


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Dated:

3/31/2020

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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