

Title: Vitamin E Succinate, 400 IU	
Allergy Research Group® / NutriCology®	
Document No.: 70430CA	Revision: 008

Certificate of Analysis

Part Number	70430		
Lot Number	00411		
Product Count & Form	100 Vegetarian Capsules		
Packaging, Closure	175 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	03/2022
Label Number, Size	70430L, E		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	White, clear size "0"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 480 - 600 mg	Passes, 542 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 16:35 mins.

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Vitamin E (as d-alpha-Tocopheryl Acid Succinate)	400 IU	100 - 150% of LC by HPLC	412.4 IU/capsule
Succinate	74 mg	100 - 150% of LC by HPLC	100 - 150% of LC by HPLC*
Other Ingredients			
Hydroxypropyl Methylcellulose, Microcrystalline Cellulose, Silicon Dioxide, L-Leucine			

*Production and Process Control

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	0.075 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.008 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	0.009 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.087 mcg/day


*Production and Process Control, Ψ – Permitted Daily Exposure, BQL – Below Quantitative Level

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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	< 10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ CFU/g	< 10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ CFU/g	< 3 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: 2020.06.10 09:31:16 -06'00'	Date: 10JUN2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: Vitamin E Succinate
Sample ID: 40430/00411
Lot No:
Location:
Received: 3/26/2020
Completed: 3/31/2020

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

Lab No: 192077-01

Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	<= 1,000 CFU/g	USP <2021>
Coliform	<3	MPN/g	< 3 MPN/g	FDA BAM
E.Coli	<3	MPN/g	< 3 MPN/g	FDA BAM
Staphylococcus aureus	Absent	per 10 grams	Absent	USP <2022>
Salmonella	Absent	per 10 grams	Absent	USP <2022>
Total Yeast & Mold	<10	CFU/g	<= 100 CFU/g	USP <2021>
Yeast *	<10	CFU/g	<= 100 CFU/g	
Mold *	<10	CFU/g	<= 100 CFU/g	

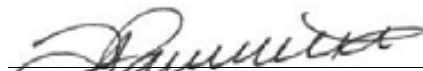
* For informational purposes only.

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.

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Results Approved By:


Alisa Farnsworth-Quality Technician

Dated:

3/31/2020

Printed: 3/31/2020 9:49:38 PM





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Email: utlab@advancedlabsinc.com
FDA Registration #14353128308

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

Test Certificate

Description: Vitamin E Succinate
Sample ID: 40430/00411
Lot No:
Location:
Received: 4/10/2020
Completed: 4/20/2020

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

Lab No: 193266-01

Analysis	Result	Per Unit	Specifications	Method
E. Coli Count	Absent	per 10 grams	Absent	USP <2022>

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Results Approved By: 
Kristina Noll - Quality Technician

Dated: 4/20/2020

Printed: 4/20/2020 9:46:00 AM



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

Test Certificate

Description: Vitamin E Succinate
Sample ID: 40430/00411
Lot No:
Location:
Received: 3/26/2020
Completed: 4/2/2020

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

Lab No: 192096-01

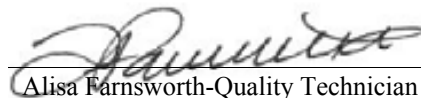
Analysis	Result	Per Unit	Specifications	Method
Mercury	0.008	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.080	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.069	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.007	µg/g	< 0.5 µg/g	ICP-MS USP <730>
† Vitamin E (Alpha Tocopheryl Succinate)	412.4	IU/capsule	>= 400 IU/capsule	HPLC

Vitamin E (Alpha Tocopheryl Succinate) analysis performed using HPLC by method adapted from Gama, P., Casal, S., Oliveira, B., Ferreira, M.A., "Development of an HPLC/Diode-Array/Fluorimetric Detector Method for Monitoring Tocopherols and Tocotrienols in Edible Oils" as published in the Journal Of Liquid Chromatography & Related Technologies 23 (19): 3011-3022 2000; utilizing chromatographic separation using a normal phase column LiChrosorb SI 60 (5 m; 25.0 x 0.4 cm) with isocratic elution using n-hexane:2-propanol (99.7:0.3), detection by scanning diode-array (200-400nm) with signal extraction at 320nm for quantification. Authentic chemical reference material obtained from Sigma-Aldrich.

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Results Approved By:


Alisa Farnsworth-Quality Technician

Dated:

4/2/2020

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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