Title: **Calcium Citrate, 180 Vegetarian Capsules**	
Allergy Research Group® / NutriCology®	
Document No.: 70230CA	Revision: 008

Certificate of Analysis

Part Number	70230		
Lot Number	00103		
Product Count & Form	180 Vegetarian Capsules		
Packaging, Closure	400 cc bottle, desiccant, rayon		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	01/2023
Label Number, Size	70230L, E		
Retain Sample	1 bottles per label (2 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	SOP 515	White, Clear size "00"	Complies
Product Weight	SOP 514	Meets USP <2091> 810 -1000 mg	Pass, 895 mg
Disintegration Time	SOP 522	Meets USP <2040>	Pass, 17:35 mins.

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Calcium Citrate (Monohydrate, Calcium 24%) Elemental Value 150 mg	150 mg	100 - 150% LC by HPLC	153mg
Other Ingredients			
Hydroxypropyl Methylcellulose, L-Leucine			

*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	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.200 ug/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.374 ug/day

BQL – Below Quantitation level, Ψ – Permitted Daily Exposure, 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	$\leq 1 \times 10^3$ 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	<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:	Date: 11/25/20

AEMTEK, INC.

466 Kato Terrace.
Fremont, CA 94539
Phone: 510-979-1979
Fax: 510-668-1980
E-mail: labdata@aemtek.com
Web: www.aemtek.com

Project Description: Product Testing (PO # LJ01172020)
Report Issued To: Allergy Research Group
2300 North Loop Rd.
Alameda, CA 94502
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 2001919

Sampling Date: 2020-01-17
Sample Received: 2020-01-20
Analysis Started: 2020-01-20
Analysis Performed By: EL, BH, FH
Report Issue Date: 2020-01-23

Analyte			Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
Method			AOAC OMA 990.12	AOAC OMA 991.14	AOAC OMA 2014.05	AOAC OMA 2014.05	USP 37 <62> (mod.)	USP 37 <62> (mod.)	USP 37 <62> (mod.)
Reporting Unit			CFU/g	CFU/g	CFU/g	CFU/g	per 10g	per 10g	per 10g
Method Detection Limit for Reporting			10	10	10	10	P/A	P/A	P/A
Sample ID	**Sample Description**	**Lot #/Code**	**RESULTS**						
11	Calcium Citrate	40230/ 00103	<10	<10	<10	<10	ND	ND	ND

Terminology:

CFU = Colony Forming Units g = gram
< Indicates less than the reporting limit as noted
ND = Not Detected, negative, absent. Sensitivity is about 1 organism per test portion.
BAM = FDA Bacteriological Analytical Manual
AOAC OMA = Official Methods of Analysis of the AOAC International, 18th ed.
MPN = Most Probable Number
P/A = Presence/Absence N/A = Not Applicble or not analyzed
CP Staph = Coagulase Positive Staphylococci (Staphylococcus aureus)
CMMEF = Compendium of Methods for the Microbiological Examination of Foods, 4th ed.
AOAC RI = AOAC Research Institute Performance Tested.

SGS CHEMICAL SOLUTIONS LABORATORIES, INC.

Analytical Report

January 24, 2020

Tuyen Luong
Allergy Research Group/NutriCology
2300 North Loop Road
Alameda, CA 94502

WO Number: W20A0573

Client: Allergy Research Group-QC
Client #: A5537-T
Sample Type: Capsule
Collector: Client

Customer PO: LJ01172020
Date Received: 1/20/2020
Date Completed: 01/24/2020
Discard Date: 02/07/2020

CSL#: 20A1536 **Calcium Citrate - Lot#: 40230/ 00103**

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/23/20	TMY
Cadmium	0.075 ug/g	0.050	ICP MS	01/23/20	TMY
Calcium	171,900 ug/g	5.0	ICP MS	01/22/20	CEC
Lead	0.14 ug/g	0.050	ICP MS	01/21/20	ARB
Mercury	<0.050 ug/g	0.050	ICP MS	01/23/20	TMY

CSL#: 20A1536

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Capsule	0.89 g	<0.50 ug/g
Cadmium	0.08 ug/g	1 Capsule	0.89 g	<0.50 ug/g
Calcium	153 mg/cap	1 Capsule	0.89 g	≥ 150 mg/Capsule
Lead	0.14 ug/g	1 Capsule	0.89 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.89 g	<0.50 ug/g

Reviewed and Approved,
SGS Chemical Solutions Laboratories, Inc.
DocuSigned by:
Kelli Dempsey
F885AB99F9144C7...
QA Representative

Notes:
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The units for the PQL are the same as those shown for the result.