

Title: OrganoGermanium 100 tablets	
Allergy Research Group® / NutriCology®	
Document No.: 55340CA	Revision: 009

Certificate of Analysis

Part Number	55340		
Lot Number	0318114		
Product Count & Form	100 Tablets		
Packaging, Closure	75 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	03121
Label Number, Size	55340L, A		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	White tablet, T1 round	Complies
Product Weight	SOP 514	Meets USP <2091> 370 – 450 mg	Passes, 435 mg
Disintegration time	SOP 522	Meets USP <2040>	Passes

Purity/Strength

Active Ingredients	Label Claim	Release Limits	Test Result
Bis-Carboxyethyl Germanium	100 mg	100-150% LC by input	100-150% LC by input*
Germanium	NA	38.2 – 53.1 mg By Titratable Acidity	40.9 mg
Other Ingredients			
Mannitol, Stearic Acid, Acacia Gum, Calcium Carbonate, Magnesium Stearate, Croscarmellose Sodium, cellulose, Silicon Dioxide			

*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	0.0241 mcg/day φ
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.757 mcg/day φ
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL φ
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	BQL φ

BQL – Below Quantitation Level, Ψ – Permitted Daily Exposure, φ - Complies with California Proposition 65 Limits

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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	30 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	Negative
Staphylococcus aureus	USP/ AOAC/ FDA BAM	None Detected	Negative
Salmonella	USP/ AOAC/ FDA BAM	None Detected	Negative

Approval: 	Date: 05/17/19
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April 19, 2019

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

CERTIFICATE OF ANALYSIS

AR-19-KK-005255-01
 Batch #: EUCAPE-00111509

Sample Identification:

Sample #: 740-2019-03280018
 Description: Germanium, Tablets, Lot #85340/ 0319114, Serving = 1 Tablet
 Condition: Acceptable
 Date Received: March 28, 2019

K0143: Germanium Sesquioxide Assay (Titratable Acidity)

Method Reference: Internal Method

Completed: 04/04/2019

	Result	Calculated	Theoretical Level
Germanium Sesquioxide	9.45 %	40.9 mg/Serving	38.2-53.1 mg/serving

KK729: Serving Size (Unit Weight)

Method Reference: N/A

Completed: 03/29/2019

	Result	Calculated	Theoretical Level
Serving Size	433.01 mg		
Units Per Serving	1		1
Average Unit Weight	433.01 mg		

QG002: Inorganic Arsenic

Method Reference: EPA 1632

Completed: 04/19/2019

	Result	Calculated	Theoretical Level
Total Inorganic Arsenic <i>[Method performed by an outsource lab.]</i>	0.007 ppm	0.007 ppm	

QG008: Organic As

Method Reference: EPA 1632

Completed: 04/19/2019

	Result	Calculated	Theoretical Level
Arsenic, total organic (Sum of DMA and MMA As) <i>[Method performed by an outsource lab.]</i>	0.166 ppm	0.166 ppm	

QG00N: Arsenic

Method Reference: AOAC 993.14 Mod.

Completed: 04/19/2019

	Result	Calculated	Theoretical Level
Arsenic (As) <i>[Method performed by an outsource lab.]</i>	0.173 ppm	0.173 ppm	

Results pertain only to the items tested.

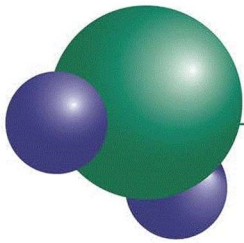
All results are reported on an as-is basis unless otherwise stated.

Estimation of uncertainty of measurement is available upon request.

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Darlene Enriquez
Quality Assurance Manager



Analytical Report
April 04, 2019

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

Page 1 of 1
WO Number: W19C1061

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

Customer PO: MH03262019
Date Received: 3/27/2019
Date Completed: 04/04/2019
Discard Date: 04/18/2019

CSL#: 19C2826 Germanium - Lot#: 85340/ 0319114

Parameter	Result	PQL	Method	Date	Analyst
Cadmium	0.22 ug/g	0.050	ICP MS	04/03/19	CEN
Lead	<0.050 ug/g	0.050	ICP MS	03/29/19	ARB
Mercury	<0.050 ug/g	0.050	ICP MS	04/03/19	CEN

CSL#: 19C2826

Parameter	Result	Serving Size	Unit Weight	Specification
Cadmium	0.22 ug/g	1 Tablet	0.43 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Tablet	0.43 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Tablet	0.43 g	<0.50 ug/g

Respectfully Submitted,
Chemical Solutions, Ltd.

QA Representative

Notes:

CONFIDENTIAL REPORT. This report is confidential and is for the sole use of the addressee.
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The units for the PQL are the same as those shown for the result.



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Certificate of Analysis

Project Description: Product Testing (PO # MH03262019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

AEMTEK #: 19031451

Sampling Date: 2019-03-26
Sample Received: 2019-03-27
Analysis Started: 2019-03-27
Analysis Performed By: CL, WY, JC, EM, EL
Report Issue Date: 2019-03-31

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
8	Germanium	1,200	<10	<10	<10	ND	ND	ND
	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 Description	Lot #/Code						
	Germanium	85340/ 0319114						
RESULTS								

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
 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.

pd 04/01/15