

Title: **Calcium Magnesium Citrate, 100 Capsules**

Allergy Research Group® / NutriCology®

Document No.: 71980CA

Revision: 008

Certificate of Analysis

Part Number	71980		
Lot Number	0220254		
Product Count & Form	100 Vegetarian Capsules		
Packaging, Closure	225 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	06/2023
Label Number, Size	71980L, H		
Retain Sample	1 bottle per label (2 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	QC011	White, clear size "00 to 00EL"	Complies
Product Weight Variation	QC012	Meets UPS <2091>1100-1500 mg	Pass, 1,282 mg
Disintegration Time	SOP 522	Meets USP <2040>	Pass*

* Production and Process Control for HPMC capsules

Purity/Strength

Active Ingredients	Label Claim	Release Limits	Test Result
Calcium (as Calcium Citrate)	100 mg	100-150% LC by ICP-OES	103 mg
Magnesium (as Magnesium Citrate)	100 mg	100-150% LC by ICP-OES	110 mg

* 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	0.191 mcg/day
Cadmium	ICP-MS per USP <2232>	\leq 5 mcg/day Ψ	0.017 mcg/day
Mercury (total)	ICP-MS per USP <2232>	\leq 15 mcg/day Ψ	0.007 mcg/day
Lead	ICP-MS per USP <2232>	\leq 10 mcg/day Ψ	0.048 mcg/day

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

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	\leq 1 x 10 ³ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	\leq 1 x 10 ² CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	\leq 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: 	Casey Van Wagoner 2020.08.12 15:54:06 -06'00'	Date: 12AUG2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

 Description: Calcium Magnesium Citrate
 Sample ID: 81980
 Lot No: 0220254
 Location:
 Received: 7/18/2020
 Completed: 7/27/2020

 Client: Allergy Research Group
 2300 S Main St
 Salt Lake City, UT 84115

Lab No: 200074-01

Analysis	Result	Per Unit	Specifications	Method
Calcium	103	mg/cap	>= 100 mg/cap	ICP-OES USP <730>
Mercury	0.004	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.037	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.146	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.009	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Magnesium	110	mg/cap	>= 100 mg/cap	ICP-OES USP <730>
Total Aerobic Microbial Count	<10	CFU/g	<= 1,000 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	<= 100 CFU/g	USP <2021>
Yeast *	<10	CFU/g	<= 100 CFU/g	USP <2021>
Mold *	<10	CFU/g	<= 100 CFU/g	USP <2021>

* For informational purposes only.

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: 7/27/2020

Printed: 7/27/2020 12:39:22 PM

