

Title: **Zinc Citrate, 25 mg, 60 Capsules**

Allergy Research Group\* / NutriCology\*

Document No.: 70280CA

Revision: 010

**Certificate of Analysis**

Part Number	70280		
Lot Number	0221		
Product Count & Form	60 Vegetarian Capsules		
Packaging, Closure	75 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	04/2023
Label Number, Size	70280L, B		
Retain Sample	4 bottles		

**ANALYSIS**

**Physical**

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	White – Off White, clear, size “2”	Complies
Product Weight	QC012	Meet USP <2091>: 328 - 353 mg	337 mg
Disintegration Time	QC018	Meet USP <2040>	Pass <sup>1</sup>

<sup>1</sup>Per manufacturer Certificate of Analysis

**Purity/Strength per Capsule**

Active Ingredients	Label Claim	Release Limits	Test Result
Zinc (as Zinc Citrate, 31.7%)	25 mg	100 - 150% of LC by ICP-OES	25 mg/capsule

**Other Ingredients**

Hydroxypropyl methylcellulose, microcrystalline cellulose, rice hull concentrate, gum arabic, sunflower oil

<sup>1</sup>Per manufacturer Certificate of Analysis

**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	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.071 mcg/day

BQL - Below Quantitation Level, Ψ – Permitted Daily Exposure, \*Production and Process Control

**Microbiology**

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>3</sup> CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>2</sup> CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>2</sup> 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 2020.08.31 16:08:40 -06'00'	Date: 31AUG2020
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If you liked our service, please tell a friend. If you didn't, please tell us!

## Test Certificate

Description: Zinc Citrate 25mg  
Sample ID: 40280  
Lot No: C0221  
Location:  
Received: 7/15/2020  
Completed: 7/20/2020

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

Lab No: 199906-02

<b>Analysis</b>	<b>Result</b>	<b>Per Unit</b>	<b>Specifications</b>	<b>Method</b>
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:

7/20/2020

Printed: 7/20/2020 5:12:41 PM



## Analytical Report

July 24, 2020

Tuyen Luong  
Allergy Research Group/NutriCology  
2300 S Main St  
Salt Lake City, Utah 84115

Page 1 of 1  
WO Number: W20G0580

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

Customer PO: 77775-15  
Date Received: 7/20/2020  
Date Completed: 07/24/2020  
Discard Date: 08/07/2020

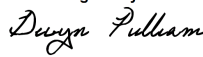
**CSL#: 20G1302      Zinc Citrate 25mg - Lot#: 40280/C0221**

Parameter	Result	PQL	Method	Date	Instrument	Analyst
Arsenic*	<0.10 ug/g	0.10	ICP MS	07/21/20	350X	JTP
Cadmium	<0.050 ug/g	0.050	ICP MS	07/20/20	9000-2	JTP
Lead	0.065 ug/g	0.050	ICP MS	07/20/20	DRCe-2	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	07/20/20	9000-2	JTP
Zinc	74,820 ug/g	1,500	ICP MS	07/23/20	9000	TMY

**CSL#: 20G1302**

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic*	<0.10 ug/g	1 Capsule	0.33 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Capsule	0.33 g	<0.50 ug/g
Lead	0.07 ug/g	1 Capsule	0.33 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.33 g	<0.50 ug/g
Zinc	25 mg/serving	1 Capsule	0.33 g	25 mg/serving

Reviewed and Approved,  
SGS Chemical Solutions Laboratories, Inc.

DocuSigned by:  
  
AF6434AEAFED49A...  
QA Representative

Notes:

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

\*PQL reported is above the minimum report level specified on the Sample Submittal Form. The requested levels were not attainable due to the nature of this sample.