

Title: **Zinc Chewables with Vitamin C**

Allergy Research Group* / NutriCology*

Document No.: 77610CA

Revision: 001

Certificate of Analysis

Part Number	77610		
Lot Number	010820		
Product Count & Form	60 chewable tablets		
Packaging, Closure	120 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	08/2023
Label Number, Size	77610, D		
Retain Sample	2 bottles		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	White-yellowish, round "T2" tablets	Complies
Product Weight	QC012	Meet USP <2091>: 760 - 840 mg	801.7 mg
Disintegration Time	QC018	Meet USP <2040>	Pass

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Zinc Citrate (Zinc Citrate)	20 mg	100 – 150 % by ICP-OES	21.5 mg/tablet
Vitamin C (Ascorbic Acid)	60 mg	100 – 150 % by HPLC	60 mg/tablet

Other Ingredients: Sorbitol, mannitol, berries flavor, magnesium stearate, sucralose

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	0.003 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	< 0.001 mcg/day
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.249 mcg/day

Ψ – Permitted Daily Exposure

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 ³ CFU/g	< 10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 ² CFU/g	< 10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 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:		Digitally signed by Kimberly Vennebush Date: 2020.10.05 14:24:10 -06'00'	Date: 05OCT2020
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Test Certificate

 Description: Chewable Zinc Citrate
 Sample ID: 87610
 Lot No: 010820
 Location:
 Received: 9/23/2020
 Completed: 9/30/2020

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

Lab No: 203676-01

Analysis	Result	Per Unit	Specifications	Method
Gluten***	<5.0	ppm	Report	ELISA
Mercury	< 0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.155	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.002	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.005	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Total Aerobic Microbial Count	<10	CFU/g	<= 1,000 CFU/g	USP <2021>
Coliform	<10	CFU/g	<= 10 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.

***Limit of Quantification (LOQ) = 5.0 ppm

***Samples tested for gliadin. Gliadin results are multiplied by two (2) to obtain gluten results.

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:



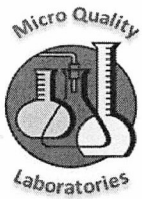
Kristina Noll - Quality Technician

Dated:

9/30/2020

Printed: 9/30/2020 1:14:24 PM





Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing

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Customer: Allergy Research Group, LLC
Address: 2300 S. Main st
Salt Lake City, UT 84115

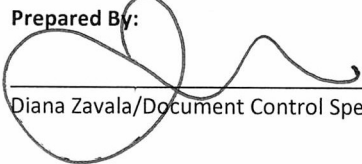
ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: CHEWABLE ZINC CITRATE
Product Code: 87610
Batch/Lot: 010820
MQL Accession: 200923-0224

PO#: 78083-22
Sample Description: FG
Rush: **GUARANTEED RUSH**
Received Date: 09/23/20

Test Requested:	Test Method:	Specification:	Results:
Vitamin C (Ascorbic Acid)	MQLTM-0193 By HPLC	NLT 60 mg	60 mg

Prepared By:


Diana Zavala/Document Control Specialist

SEP 29 2020

09/29/20

Reviewed By:


Esme Arellano/QA Assistant

SEP 29 2020

09/29/20

The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.

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FDA Registration #14353128308

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Test Certificate

Description: Chewable Zinc Citrate
Sample ID: 87610
Lot No: 010820
Location:
Received: 10/1/2020
Completed: 10/2/2020

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

Lab No: 204134-01

Analysis	Result	Per Unit	Specifications	Method
Zinc	21.5	mg/tablet	> 20 mg/tablet	ICP-OES USP <730>

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Results Approved By: 
Kristina Noll - Quality Technician

Dated: 10/2/2020

Printed: 10/2/2020 3:36:20 PM

