

Title: **Esterol Ester-C with BioFlavonoids, 200 capsules**

Allergy Research Group® / NutriCology®

Document No.: 70080CA

Revision: 009

**Certificate of Analysis**

<b>Part Number</b>	70080		
<b>Lot Number</b>	0420341		
<b>Product Count &amp; Form</b>	200 Vegetarian Capsules		
<b>Packaging, Closure</b>	400 cc bottle, desiccant, rayon/cotton		
<b>Storage Condition</b>	Room Temperature		
<b>Shelf Life</b>	36 months	Expiration Date	05/2023
<b>Label Number, Size</b>	70080L, K		
<b>Retain Sample</b>	1 bottle per label (2 bottles total)		

**ANALYSIS**

**Physical**

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	Light green, Size "00"	Complies
Product Weight	QC012	Meets USP <2091> 960 – 1185 mg	Passes, 1092 mg
Disintegration time	QC018	Meets USP <2040>	Passes

\*Production and Process control for HPMC capsule

**Purity/Strength per Capsule**

Active Ingredients	Label Claim	Release Limits	Test Result
Vitamin C (Ascorbic acid)	675 mg	100-150% LC by titration	677mg
Calcium (Calcium ascorbic)	75 mg	100-150% LC by ICP-OES	100-150% LC by ICP-OES*
Rutin	50 mg	100-150% LC by HPLC	100 - 150% LC by HPLC*
Quercetin	25 mg	100-150% LC by HPLC	27mg
Grape Seed Extract (92% Proanthocyanidins)	2.5 mg	100-150% LC by HPLC	100 - 150% LC by input*

**Other Ingredients:** Hydroxypropl Methylcellulose, Magnesium Stearate, 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	0.122 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.262 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.476 mcg/day

\*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 2020.09.15 16:07:04 -06'00'	Date: 15SEP2020
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## Test Certificate

 Description: Esterol  
 Sample ID: 80080  
 Lot No: 0420132  
 Location:  
 Received: 8/26/2020  
 Completed: 9/2/2020

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

Lab No: 202128-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Lead	0.109	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Arsenic	0.028	µg/g	< 0.5 µg/g	ICP-MS USP <730>
Cadmium	0.060	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	<= 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: 9/2/2020

Printed: 9/2/2020 2:04:17 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 North Loop Road  
Alameda, CA 94502

## ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

**Sample Name:** ESTEROL  
**Product Code:** 80080  
**Batch/Lot:** 0420132  
**MQL Accession:** 200826-0244

**PO#:** 77945-25  
**Sample Description:** FG  
**Rush:** N/A  
**Received Date:** 08/26/20

Test Requested:	Test Method:	Specification:	Results:
Vitamin C (Ascorbic Acid)	MQLTM-0193 By HPLC	NLT 675 mg/capsule	677 mg/capsule
Quercetin	MQLTM-0202 By HPLC	NLT 25 mg/capsule	27 mg/capsule

**Prepared By:**

  
Diana Zavala/Document Control Specialist

SEP 08 2020

09/08/20

**Reviewed By:**

  
Andrea Orozco/Quality Assurance Supervisor

SEP 08 2020

09/08/20

*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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