

Title: Esterol Ester-C with Bioflavonoids, 100 capsules	
Allergy Research Group® / NutriCology®	
Document No.: 70070CA	Revision: 008

Certificate of Analysis

Part Number	70070		
Lot Number	0220257		
Product Count & Form	100 Capsules		
Packaging, Closure	225 cc bottle, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	03/23
Label Number, Size	70070L, D		
Retain Sample	1 bottles per label (2 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	QC011	Size "00", light green	Complies
Product Weight	SOP 514	Meets USP <2091> 1000 – 1180 mg	Passes, 1076 mg
Disintegration time	SOP 522	Meets USP <2040>	Passes*

* Production and Process control

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Vitamin C (Ascorbic acid)	675 mg	100 - 150% LC by titration	688mg
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	54mg
Quercetin	25 mg	100 - 150% LC by HPLC	100 - 150% LC by HPLC*
Grape Seed Extract (92% Proanthocyanidins)	2.5 mg	100 - 150% LC by input	19.0 mg ⁺
Other Ingredients	Hydroxypropyl Methylcellulose, Magnesium Stearate, Silicon dioxide		

*Production and Process Control, ⁺ The elevated Proanthocyanidins levels are due to the UV method detecting the total Proanthocyanidins from Rutin and Quercetin, which contain bioflavonoids.

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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	0.319 ug/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.010 ug/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.157 ug/day

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

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

Approval:	Date: 22MAY2020
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Test Certificate

Description: Ester C
Sample ID: 80070
Lot No: 0220257
Location:
Received: 4/23/2020
Completed: 4/28/2020Client: Allergy Research Group
2300 S Main St
Salt Lake City, UT 84115

Lab No: 194384-01

Analysis	Result	Per Unit	Specifications	Method
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:

4/28/2020

Printed: 4/28/2020 3:35:05 PM





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 Phone: (801) 485-1800 Fax: (801) 484-9211
 Email: utlab@advancedlabsinc.com
FDA Registration #14353128308

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Test Certificate

Description: Ester C
 Sample ID: 80070
 Lot No: 0220257
 Location:
 Received: 4/23/2020
 Completed: 4/30/2020

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

Lab No: 194383-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	< 0.001	mcg/g	< 0.5 mcg/g	ICP-MS USP <730>
Lead	0.090	mcg/g	< 0.5 mcg/g	ICP-MS USP <730>
Arsenic	0.183	mcg/g	< 0.5 mcg/g	ICP-MS USP <730>
Cadmium	0.004	mcg/g	< 0.5 mcg/g	ICP-MS USP <730>

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Results Approved By: 
 Kristina Noll - Quality Technician

Dated: 4/30/2020

Printed: 4/30/2020 3:48:26 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: ESTER C
Product Code: 80070
Batch/Lot: 0220257
MQL Accession: 200422-0168

PO#: 76866T
Sample Description: FG
Rush: N/A
Received Date: 04/22/20

Test Requested:	Test Method:	Specification:	Results:
Vitamin C	MQLTM-0193 By HPLC	NLT 675 mg/capsule	688 mg/capsule
Rutin Trihydrate	MQLTM-0283 By HPLC	NLT 50 mg/capsule	54 mg/capsule
Proanthocyanidins	USP 42 Modified By UV	NLT 2.3 mg/capsule	19.00 mg/capsule


Prepared By:


Diana Zavala/Document Control Specialist

APR 30 2020

04/30/20

Reviewed By:


Sade Rodriguez / QA Reviewer

APR 30 2020

04/30/20

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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