

Title: Nrf2 Renew, 120 Capsules	
Allergy Research Group* / NutriCology*	
Document No.: 76870CA	Revision: 003

Product Specification

Part Number	76870		
Lot Number	90207		
Product Count & Form	120 Vegetarian Capsules		
Packaging, Closure	275 cc bottle, desiccant, cotton/rayon		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	01/21
Label Number, Size	76870L, D		
Retain Sample	2 bottles total		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	Light Brown, Size "00", Clear, HPMC capsule	Complies
Product Weight	SOP 514	Meets USP <2091> Expect range 680-860mg	Passes, 775 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 19:05 mins.

Purity / Strength per 1 Capsule

Ingredient	Label Claim Per 1 capsule	Release Limit	Test Result
Green Tea (standardized to 95% Polyphenol / 75% Catechins / <0.5% Caffeine / 40% EGCG)	100 mg	100-150% LC by UV	100-150% LC by UV*
Milk Thistle (standardized to 30% Silybines / 80% Silymarin)	100 mg	100-150% LC by UV	80 mg (Silymarin)
Pomegranate Extract (standardized to 40% Ellagic Acid)	100 mg	100-150% LC by HPLC	100-150% LC by HPLC*
Green Coffee (Bean) PE (standardized to 45% Chlorogenic Acids / 1-5% Caffeine)	100 mg	100-150% LC by HPLC	100-150% LC by HPLC*
Ginkgo (Leaf) extract (standardized to 24% Flavone Glycosides / 6% Total Ginkgolides)	60 mg	100-150% LC by GC	100-150% LC by GC*
Olive Leaf extract (standardized to 20% Oleuropein)	50 mg	100-150% LC by HPLC	11 mg (Oleuropein)

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Ingredient	Label Claim Per 1 capsule	Release Limit	Test Result
Sulforaphane	25 mg	100-150% LC by input	100-150% LC by input*
Other ingredients: Hydroxypropyl methylcellulose, Microcrystalline Cellulose, L-leucine, 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 µg/day Ψ	0.123 µg/day Ψ
Cadmium	ICP-MS per USP <2232>	≤ 5 µg/day Ψ	BQL Ψ
Mercury (total)	ICP-MS per USP <2232>	≤ 15 µg/day Ψ	BQL Ψ
Lead	ICP-MS per USP <2232>	≤ 10 µg/day Ψ	0.185 µg/day Ψ

*Production and Process Control; 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 ⁴ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 ³ 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: 	Date: 03/07/15
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Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetic Testing
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Customer: Allergy Research Group
Address: 2300 North Loop Road
Alameda, CA 94502

ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: **NRF2**
Product Code: 46870
Batch/Lot #: 90207
MQL Accession #: 190219-0143

PO#: MH02152019
Sample Description: Bulk
Rush: 2-3 Days
Received Date: 02/19/19

Test Requested:	Test Method Number:	Client Specification:	Results:
Silymarin	MQLTM-0253 By HPLC	80 mg/cap	80 mg/cap
Oleuropein	MQLTM-0132 By HPLC	10 mg/cap	11 mg/cap

Prepared By:



Desiree Rodriguez/Document Control Supervisor

FEB 26 2019

02/26/19

Reviewed By:



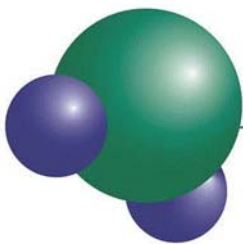
Diana Zavala/ Document Control Specialist

FEB 26 2019

02/26/19

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.

This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed, and neither the report nor the name of Micro Quality Labs, Inc. nor any member of its staff, may be used in connection with the advertising or sale of any product or process without written authorization from Micro Quality Labs, Inc. Failure to comply will result in immediate legal action by Micro Quality Labs, Inc.



Analytical Report

February 22, 2019

Tuyen Luong
Allergy Research Group/NutriCology
2300 North Loop Road
Alameda, CA 94502

Page 1 of 1
WO Number: W19B0677

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

Customer PO: MH02152019
Date Received: 2/18/2019
Date Completed: 02/22/2019
Discard Date: 03/08/2019

CSL#: 19B1877 NRF2 - Lot#: 46870/ 90207

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	0.078 ug/g	0.050	ICP MS	02/21/19	CEN
Cadmium	<0.050 ug/g	0.050	ICP MS	02/21/19	CEN
Lead	0.12 ug/g	0.050	ICP MS	02/19/19	KMS
Mercury	<0.050 ug/g	0.050	ICP MS	02/21/19	CEN

CSL#: 19B1877

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	0.08 ug/g	1 Capsule	0.77 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Capsule	0.77 g	<0.50 ug/g
Lead	0.12 ug/g	1 Capsule	0.77 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.77 g	<0.50 ug/g

Respectfully Submitted,
Chemical Solutions, Ltd.

QA Representative

Notes:

CONFIDENTIAL REPORT. This report is confidential and is for the sole use of the addressee.
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The units for the PQL are the same as those shown for the result.



AEMTEK, INC.

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Fremont, CA 94539
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Fax: 510-668-1980
E-mail: labdata@aemtek.com
Web: www.aemtek.com

Project Description: Product Testing (PO # MH02152019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 1902789

Sampling Date: 2019-02-15
Sample Received: 2019-02-18
Analysis Started: 2019-02-18
Analysis Performed By: JC, MM, WY
Report Issue Date: 2019-02-21

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
3	Method	AOAC OMA 980.12	AOAC OMA 991.14	AOAC OMA 2014.05	AOAC OMA 2014.05	USP 37 <62> (mod.)	USP 37 <62> (mod.)	USP 37 <62> (mod.)
	Reporting Unit	CFU/g	CFU/g	CFU/g	CFU/g	per 10g	per 10g	per 10g
	Method Detection Limit for Reporting	10	10	10	10	P/A	P/A	P/A
	Sample Description	Lot #/Code						
	NRF2	46870/ 90207						
RESULTS								
		<10	<10	<10	<10	ND	ND	ND

Terminology:

CFU = Colony Forming Units
< Indicates less than the reporting limit as noted
ND = Not Detected, negative, absent. Sensitivity is about 1 organism per test portion.
BAM = FDA Bacteriological Analytical Manual
AOAC OMA = Official Methods of Analysis of the AOAC International, 18th ed.

MPN = Most Probable Number

P/A = Presence/Absence

CP Staph = Coagulase Positive Staphylococci (Staphylococcus aureus)

CMMEF = Compendium of Methods for the Microbiological Examination of Foods, 4th ed.

AOAC RI = AOAC Research Institute Performance Tested.

N/A = Not Applicable or not analyzed

Handwritten signature
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