

Title: QuatreActiv® Folate, 500 µg	
Allergy Research Group* / NutriCology*	
Document No.: 76530CA	Revision: 005

Certificate of Analysis

Part Number	76530		
Lot Number	50118		
Product Count & Form	90 Vegetarian Capsules		
Packaging, Closure	100cc bottle, rayon/cotton, desiccant		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	01/21
Label Number, Size	76530L, C		
Retain Sample	4 bottles		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	SOP 515	White, clear size "3"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 175 - 230 mg	Passes, 201 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 14:40 mins.

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Methyltetrahydrofolate (5-MTHF)	500 µg	100 - 150% of LC Methyl Folate by HPLC Ψ	595 mcg
Other Ingredients			
Hydroxypropyl methylcellulose, Microcrystalline cellulose, L-Leucine			

Ψ Chromadex method CDA-00100675-ATR, * 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	BQL Ψ
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL Ψ
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL Ψ
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	BQL Ψ

* Production and process control, Ψ - Permitted Daily Exposure

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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	300 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ 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: 01/29/19
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Certificate of Analysis

Allergy Research Group

Sample Name:	Quatrefolic Folate	Eurofins Sample:	8055803
Project ID	ALLER_RE_G-20190116-0002	Receipt Date	15-Jan-2019
PO Number	MH01112019	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	16-Jan-2019
Description	46530_90118	Online Order	20

Analysis	Result
Calculated Sample Weight	
Entity Weight	0.2019 g
Entity Fill Weight	0.1558 g
Quatrefolic	
(6S)-5-Methyltetrahydrofolic acid	595 mcg/Serving Size
(6S)-5-Methyltetrahydrofolic acid, Glucosamine salt	1060 mcg/Serving Size

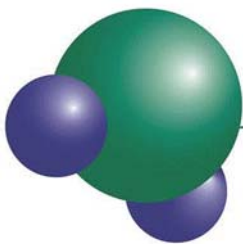
Method References	Testing Location
Calculated Sample Weight (PREP)	Food Integrity Innovation-Madison
Quatrefolic (MISC_4025)	Food Integrity Innovation-Madison
GN QT 001	

Testing Location(s)	Released on Behalf of Eurofins by
Food Integrity Innovation-Madison	Edward Ladwig - Director

Eurofins Food Chemistry Testing US, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375

Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.



Analytical Report

January 21, 2019

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

Page 1 of 1
WO Number: W19A0502

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

Customer PO: MH01112019
Date Received: 1/14/2019
Date Completed: 01/21/2019
Discard Date: 02/04/2019

CSL#: 19A1551 Quatrefolic - Lot#: 46530/90118

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/18/19	RBP
Cadmium	<0.050 ug/g	0.050	ICP MS	01/18/19	RBP
Lead	<0.050 ug/g	0.050	ICP MS	01/17/19	JTG
Mercury	<0.050 ug/g	0.050	ICP MS	01/18/19	RBP

CSL#: 19A1551

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Capsule	0.20 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Capsule	0.20 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Capsule	0.20 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.20 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.
This report can only be reproduced in full.
The units for the PQL are the same as those shown for the result.



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Web: www.aemtek.com

Project Description: Product Testing (PO # MH01112019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 1901584

Sampling Date: 2019-01-11
Sample Received: 2019-01-14
Analysis Started: 2019-01-14
Analysis Performed By: MM, EL, JC
Report Issue Date: 2019-01-17

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus	Method	Reporting Unit	Method Detection Limit for Reporting	Lot #/Code							
												Sample Description	Lot #/Code						
1	Quatrefolic	AOAC OMA 990.12 CFU/g 10	AOAC OMA 991.14 CFU/g 10	AOAC OMA 2014.05 CFU/g 10	AOAC OMA 2014.05 CFU/g 10	USP 37 -62> (mod.) per 10g P/A	USP 37 -62> (mod.) per 10g P/A	USP 37 -62> (mod.) per 10g P/A				46530/ 90118							
RESULTS													<10	<10	<10	ND	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 and date:
01/07/19
01/17/15