

Title: MultiMin	
Allergy Research Group* / NutriCology*	
Document No.: 70210CA	Revision: 010

Certificate of Analysis

Part Number	70210		
Lot Number	90523		
Product Count & Form	120 Vegetarian Capsules		
Packaging, Closure	275 cc bottle, Child Resistant Cap, desiccant, rayon/cotton		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	06/22
Label Number, Size	70210L, I		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	White, clear size "00"	Complies
Product Weight	SOP 514	Meets USP <2091> 980 – 1260 mg	1,097 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 22:40 min

*Production and Process control for HPMC capsules

Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits	Test Result
Calcium (as Calcium Citrate)	83 mg	100-150% by ICP-OES	87mg
Iron (as Ferric Ammonium Citrate)	6 mg	100-150% by ICP-OES	100-150% by ICP-OES*
Magnesium (as Magnesium Glycinate)	83 mg	100-150% by ICP-OES	105mg
Zinc (as Zinc Citrate)	10 mg	100-150% by ICP-OES	100-150% by ICP-OES*
Selenium (as Sodium Selenite)	33 mcg	100-150% by ICP-OES	100-150% by ICP-OES*
Copper (as Copper Sebacate)	0.5 mg	100-150% by ICP-OES	100-150% by ICP-OES*
Manganese (as Manganese Sulfate)	5 mg	100-150% by ICP-OES	100-150% by ICP-OES*
Chromium (as Amino Acid Complex)	133 mcg	100-150% by ICP-OES	100-150% by ICP-OES*
Molybdenum (as Sodium Molybdate)	83 mcg	100-150% by ICP-OES	100-150% by ICP-OES*
Potassium (as Potassium Chloride)	33 mg	100-150% by ICP-OES	33mg
Boron (as Boric Acid)	333 mcg	100-150% by ICP-OES	100-150% by ICP-OES*

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Active Ingredients	Label Claim	Release Limits	Test Result
Vanadium (as Sodium Metavanadate)	67 mcg	100-150% by ICP-OES	100-150% by ICP-OES*
Glutamic Acid	67 mg	100-150% by HPLC	69mg
Other Ingredients			
Hydroxypropyl methylcellulose, L-leucine			

*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	1.188 mcg/day Ψ
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	1.617 mcg/day Ψ
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	0.594 mcg/day Ψ

*Production and Process Control, Ψ – Permitted Daily Exposure, BQL: Below Quantitative Level

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	<10 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: 06/19/19
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Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing

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E-Mail: Karine@MicroQualityLabs.com

Customer: Allergy Research Group, LLC

Address: 2300 North Loop Road
Alameda, CA 94502

ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: **MULTIMIN**

Product Code: 40210

Batch/Lot: 90523

ML Accession: 190611-0202

PO#: MH06072019

Sample Description: BULK

Rush: 2-3 business days

Received Date: 06/11/19

Test Requested:	Test Method:	Specification:	Results:
Glutamic Acid	MLTM-0198 By GC-FID	NLT 67 mg / cap	69 mg / cap

Prepared By:

Kendra Hensley/Document Control Specialist

JUN 17 2019

06/17/19

Reviewed By:

Raffie Avakian/Quality Assurance Reviewer

JUN 17 2019

06/17/19

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.

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Analytical Report

June 13, 2019

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

Page 1 of 1
WO Number: W19F0286

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

Customer PO: MH06072019
Date Received: 6/10/2019
Date Completed: 06/13/2019
Discard Date: 06/27/2019

CSL#: 19F0604 MultiMin - Lot#: 40210/90523

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	0.36 ug/g	0.050	ICP MS	06/13/19	RBP
Cadmium	0.49 ug/g	0.050	ICP MS	06/13/19	RBP
Calcium	79,230 ug/g	250	ICP MS	06/13/19	JTP
Lead	0.18 ug/g	0.050	ICP MS	06/10/19	KMS
Magnesium	95,530 ug/g	5.0	ICP MS	06/13/19	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	06/13/19	RBP
Potassium	30,440 ug/g	70	ICP MS	06/13/19	JTP

CSL#: 19F0604

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	0.36 ug/g	1 Capsule	1.10 g	<0.50 ug/g
Cadmium	0.49 ug/g	1 Capsule	1.10 g	<0.50 ug/g
Calcium	87 mg/cap	1 Capsule	1.10 g	83 mg/Capsule
Lead	0.18 ug/g	1 Capsule	1.10 g	<0.50 ug/g
Magnesium	105 mg/cap	1 Capsule	1.10 g	83 mg/Capsule
Mercury	<0.05 ug/g	1 Capsule	1.10 g	<0.50 ug/g
Potassium	33 mg/cap	1 Capsule	1.10 g	33 mg/Capsule

Respectfully Submitted,
Chemical Solutions, Ltd.

QA Representative

Notes:

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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
Phone: 510-979-1979
Fax: 510-668-1980
E-mail: labdata@aemtek.com
Web: www.aemtek.com

Project Description: Product Testing (PO # MH06072019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 1906397

Sampling Date: 2019-06-07
Sample Received: 2019-06-10
Analysis Started: 2019-06-10
Analysis Performed By: EM, MM, JC, WY
Report Issue Date: 2019-06-13

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
3	Method	AOAC OMA 990.12	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	RESULTS						
	MultiMin	<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
06/13/19