

Title: Molecular H2, 60 tablets	
Allergy Research Group® / NutriCology®	
Document No.: 77520CA	Revision: 001

Certificate of Analysis

Part Number	77520		
Lot Number	P 1905 3002		
Product Count & Form	60 tablets		
Packaging, Closure	120 cc HDPE white bottle with ribbed white induction lined cap		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	02/21
Label Number, Size	77520L, D		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color	SOP 515	Gray, size T2 tablet	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 600 – 750 mg	674 mg
Disintegration Time	SOP 522	Meets USP <2040>	Pass

Purity/Strength per 1 Tablet

Active Ingredients	Label Claim	Release Limits	Test Result
Magnesium (as Elemental Magnesium)	80 mg	100-150% LC by ICP-MS	84mg
Other Ingredients: Proprietary Hydrogen Matrix (malic acid, dextrose, tartaric acid, adipic acid, sodium stearyl fumarate)			

* Production and Process control

Identification \ Chemical \ Heavy Metals

Attribute	Method / SOP	Specification	Test Result
Identity	Bulk Certificate of Analysis Review	Approved	Complies
Identity	Near Infrared Spectroscopy	Matches Reference	Complies
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day	0.103mcg/day


* Production and Process control

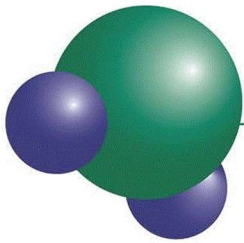
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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	<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: 06/27/19
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Analytical Report
May 09, 2019

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

Page 1 of 1
WO Number: W19E0034

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

Customer PO: MH04302019
Date Received: 5/1/2019
Date Completed: 05/09/2019
Discard Date: 05/23/2019

CSL#: 19E0062 H2 Elite - Lot#: 87520/P19053002

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	0.051 ug/g	0.050	ICP MS	05/08/19	KMS
Cadmium	<0.050 ug/g	0.050	ICP MS	05/08/19	KMS
Lead	<0.050 ug/g	0.050	ICP MS	05/03/19	ARB
Magnesium	125,900 ug/g	10	ICP MS	05/08/19	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	05/08/19	KMS

CSL#: 19E0062

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	0.05 ug/g	1 Tablet	0.67 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Tablet	0.67 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Tablet	0.67 g	<0.50 ug/g
Magnesium	84 mg/tab	1 Tablet	0.67 g	≥ 80 mg/Tablet
Mercury	<0.05 ug/g	1 Tablet	0.67 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.



466 Kato Terrace,
Fremont, CA 94539
Phone: 510-979-1979
Fax: 510-668-1980
E-mail: labdata@aemtek.com
Web: www.aemtek.com

Certificate of Analysis

Project Description: Product Testing (PO # MH04302019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Sampling Date: 2019-04-30
Sample Received: 2019-05-01
Analysis Started: 2019-05-01
Analysis Performed By: CL, JC, SL
Report Issue Date: 2019-05-04

AEMTEK #: 1905035

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							
	Lot #/Code							
	H2 Elite	<10	<10	<10	<10	ND	ND	ND
RESULTS								

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.

JK
05/06/19