

Title: B12 Methylcobalamin	
3000 µg Methylcobalamin with Folic Acid	
Allergy Research Group® / NutriCology®	
Document No.: 76560CA	Revision: 004

Certificate of Analysis

Part Number	76560		
Lot Number	18868		
Product Count & Form	50 Vegetarian Lozenges		
Packaging, Closure	100cc bottle, rayon/cotton, desiccant		
Storage Condition	Room Temperature		
Shelf Life	24 months	Expiration Date	12/21
Label Number, Size	76560L, C		
Retain Sample	2 bottles total		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color & Size	SOP 515	Beige with reddish brown speckled tablet, size "1"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 350 - 470 mg	Pass, 398 mg
Disintegration Time	SOP 522	Meets USP <2040>	Pass*

*Passes per manufacturer's certificate of analysis

Purity/Strength per lozenge

Active Ingredients	Label Claim	Release Limits	Test Result
Vitamin C (as ascorbic acid)	50 mg	100-150% LC by titration	100-150% LC by titration*
Folic Acid	400 µg	100-150% LC by HPLC	100-150% LC by HPLC*
Vitamin B12 (as Methylcobalamin)	3000 µg	100-150% LC by HPLC	3,615 mg
Other Ingredients			
Fructose, mannitol, cellulose, stearic acid, magnesium stearate, silica, natural cherry flavor, raspberry flavor.			

* Production and Process Control

Title: B12 Methylcobalamin	
<i>3000 µg Methylcobalamin with Folic Acid</i>	
Allergy Research Group* / NutriCology*	
Document No.: 76560CA	Revision: 004

Identification \ Chemical \ Heavy Metals

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

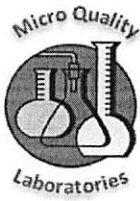
Ψ Permitted Daily Exposure, *Production and Process Control

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

* Production and Process Control

Approval: 	Date: 02/13/19
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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: Sub B-12
Product Code: 46560
Batch/Lot #: 18M868
MQL Accession #: 190121-0132

PO#: MH01172019
Sample Description: Bulk
Rush: 2-3 Days
Received Date: 01/21/19

Test Requested:	Test Method Number:	Client Specification:	Results:
Vitamin B12	MLTMM-0738 By HPLC	3000 mcg/tab	3615 mcg/tab

Prepared By:

Desiree Rodriguez/Document Control Supervisor

FEB 01 2019

02/01/19

Reviewed By:

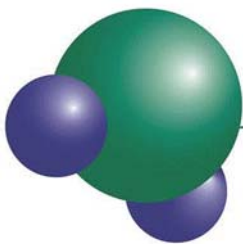
Diana Zavala/ Document Control Specialist

FEB 01 2019

02/01/19

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

January 23, 2019

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

Page 1 of 1
WO Number: W19A0719

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

Customer PO: MH01172019
Date Received: 1/18/2019
Date Completed: 01/23/2019
Discard Date: 02/06/2019

CSL#: 19A2125 Sub B-12 - Lot#: 46560/ 18M868

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/23/19	RBP
Cadmium	<0.050 ug/g	0.050	ICP MS	01/23/19	RBP
Lead	<0.050 ug/g	0.050	ICP MS	01/21/19	JTG
Mercury	<0.050 ug/g	0.050	ICP MS	01/23/19	RBP

CSL#: 19A2125

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Tablet	0.40 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Tablet	0.40 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Tablet	0.40 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Tablet	0.40 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.



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Project Description: Product Testing (PO # MH01172019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 1901846

Sampling Date: 2019-01-17
Sample Received: 2019-01-18
Analysis Started: 2019-01-18
Analysis Performed By: JC, MM, EL, FH
Report Issue Date: 2019-01-28

Sample ID	Analyte		Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
	Method	Reporting Unit							
1	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	RESULTS						
	Sub B-12	46560/18M868	<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

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