

Title: <b>Joint-Skin, 60 vegetarian capsules</b>	
Allergy Research Group* / NutriCology*	
Document No.: 77420CA	Revision: 001

### Certificate of Analysis

<b>Part Number</b>	77420		
<b>Lot Number</b>	8271		
<b>Product Count &amp; Form</b>	60 vegetarian capsules		
<b>Packaging, Closure</b>	150 cc bottle, desiccant, cotton		
<b>Storage Condition</b>	Room Temperature		
<b>Shelf Life</b>	24 months	Expiration Date	12/20
<b>Label Number, Size</b>	77420L, C		
<b>Retain Sample</b>	2 bottles total - unopened		

### ANALYSIS

#### Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	White to off white, clear, Size "2"	Complies
Product Weight	SOP 514	Meets USP <2091> 240 – 310 mg	Pass, 265 mg†
Disintegration Time	SOP 522	Meets USP <2040>	Pass†

† Per CMO's CofA

#### Purity/Strength per Capsule

Active Ingredients	Label Claim	Release Limits/ Test Method	Test Result
Salmon nasal cartilage powder	16.67 mg	100 - 150% LC by input	100 - 150% LC by input*
Type II collagen	6.67 mg	NLT 6.67 mg by ELISA	7.5542 mg
Proteoglycan	6.33 mg	NLT 6.33 mg by HPLC	6.66 mg

**Other Ingredients:** Hydroxypropyl methylcellulose, microcrystalline cellulose. L-leucine, silicon dioxide, microcrystalline cellulose.

\*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 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, BQL= Below quantitation limit

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**Microbiology**

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^4$ CFU/g	370 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ 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: 03/20/19
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# Advanced Botanical Consulting & Testing, Inc.

1169 Warner Ave., Tustin, CA 92780, Phone: (714) 259-0384 Fax: (714) 259-0385

## Allergy Research Group

2300 North Loop Rd  
Alameda, CA 94502  
Tel.: (800) 545-9960 ex 117  
Fax:

ATTN: Tuyen Luong/ QC Group

P. O. Number: MH012852019

Client Sample ID: SCP II

Lot Number: 47420/ L8271

Lab Number: 254555

Received Date: 01/30/2019

Report Date: 02/12/2019

### Analyses

### Results

Collagen Types II Identification (SDS-PAGE)	Confirmed
Type II collagen (ELISA)	7.5542 mg/capsule
Proteoglycan (SEC-HPLC)	6.66 mg/capsule
Average fill weight (based on 10)	201.56 mg/capsule

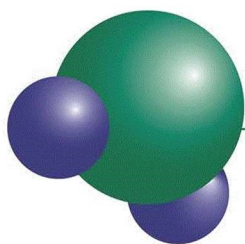
Method: SDS-PAGE, Chondrex ELISA kit, ACL500A

Analyzed by: \_\_\_\_\_

Chemist

Approved by: \_\_\_\_\_

Wendi Wang, Ph.D., President



## Analytical Report

February 01, 2019

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

Page 1 of 1  
WO Number: W19A1141

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

Customer PO: MH01262019  
Date Received: 1/29/2019  
Date Completed: 02/01/2019  
Discard Date: 02/15/2019

**CSL#: 19A3394 SPC II - Lot#: 47420/ L8271**

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/31/19	RBP
Cadmium	<0.050 ug/g	0.050	ICP MS	01/31/19	RBP
Lead	<0.050 ug/g	0.050	ICP MS	01/30/19	JTG
Mercury	<0.050 ug/g	0.050	ICP MS	01/31/19	RBP

**CSL#: 19A3394**

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Capsule	0.27 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Capsule	0.27 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Capsule	0.27 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.27 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.



# 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 # MH01262019)  
**Report Issued To:** Allergy Research Group  
2300 North Loop  
Alameda, CA 94501  
**Contact:** Janice Vu

## Certificate of Analysis

**AEMTEK #: 19011392**

**Sampling Date:** 2019-01-26  
**Sample Received:** 2019-01-29  
**Analysis Started:** 2019-01-29  
**Analysis Performed By:** EM, WY, JC, SL  
**Report Issue Date:** 2019-02-01

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
10	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						
	SPC II	370	<10	<10	<10	ND	ND	ND
	Lot #/Code	47420/ L8271						

**Terminology:**  
 CFU = Colony Forming Units  
 g = gram  
 < 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  
 N/A = Not Applicable or not analyzed  
 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.

*Handwritten signature: J. Vu*