

InterHealth Nutraceuticals, Inc is a wholly owned subsidiary of Lonza and continues to operate as InterHealth Nutraceuticals, Inc.

Certificate of Analysis

Delivery: 71437177
Sales Order: 32930328

Product Name: UC-II Powder
Material Number: 00230191
Batch No: 19FS106536
Manufacturing Date: 19-Apr-2019
Expiration Date: 19-Apr-2022
Country of Origin: USA

Description	VALUE	SPECIFICATION		UNIT	Method
		MIN	MAX		
PHYSICAL					
Color	Complies	White/Cream			VISUAL
Identification	Complies	Matches Standard			VISUAL
Loss on Drying	6		10	%	USP731
Density, Bulk	0.56	0.45	0.75	g/cm3	USP616
Density, Tap	0.92	0.75	1.05	g/cm3	USP616
Particle Size Wt. 100 mesh	71	60		%	USP786
CHEMICAL					
Total Collagen	32	25		%	HPLC
Undenatured Type II Collagen	6	3		%	ELISA
Potassium	16.8	14.2	19.4	%	USP730
Arsenic	< 0.5		1.5	ppm	USP730
Cadmium	< 0.3		0.5	ppm	USP730
Lead	< 0.1		1.0	ppm	USP730
Mercury	< 0.1		0.5	ppm	USP730
MICROBIOLOGICAL					
Total Aerobic Microbial Count	< 10		3000	CFU/g	USP2021
Enterobacterial Count	< 10		10	MPN/g	USP2021
Total Molds & Yeast Count	< 10		100	CFU/g	USP2021

InterHealth Nutraceuticals, Inc.
 5451 Industrial Way
 Benicia, CA 94510-1010
 USA
 Tel: +1 (707) 751-2800
 Fax: +1 (707) 751-2801
 www.InterHealthUSA.com

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		<i>MIN</i>	<i>MAX</i>		
Escherichia coli	Absent	Absent			USP2022
Salmonella	Absent	Absent			USP2022
Staphylococcus aureus	Absent	Absent			USP2022

Additional Information:

UC-II® undenatured type II collagen in powder form for use as a dietary supplement (U.S. Patents 7,083,820, 7,846,487, 9,066,926, EPO Patent EP1435906B1, Canadian Patent CA 2459981C, Japanese Patent JP 4800574B2, U.S. and worldwide patents pending).

Chemical Classification: Collagen Dietary Ingredient
Physical Classification: Powder

Manufacturing Address: 1302 Jackson Street, Fort Smith, Arkansas, 72901 USA

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			<i>MAX</i>			

Store in tightly closed containers free of excessive heat, moisture, light and air. Do not freeze.

Nicole Scarazzo

Electronically signed by Nicole Scarazzo

Date: 29-APR-2019 09:58:19 PST

RELEASE (Inspection Lot: Usage Decision)

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Analytical Report

August 19, 2019



Page 1 of 1
WO Number: W19H0573

Client: [Redacted]
Client #: [Redacted]
Sample Type: Powder
Collector: Client

Customer PO:
Date Received: 8/16/2019
Date Completed: 08/19/2019
Discard Date: 09/02/2019

CSL#: 19H1364 UC-II - Lot#: 19FS106536

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.50 ug/g	0.50	ICP MS	08/16/19	JTP
Cadmium	<0.25 ug/g	0.25	ICP MS	08/16/19	JTP
Lead	<0.050 ug/g	0.050	ICP MS	08/16/19	JTP
Mercury	<0.10 ug/g	0.10	ICP MS	08/16/19	JTP
Potassium	188,450 ug/g	20	ICP MS/KED	08/19/19	HG

CSL#: 19H1364

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.5 ppm	NA	NA	<1.5 ppm
Cadmium	<0.3 ppm	NA	NA	<0.5 ppm
Lead	<0.1 ppm	NA	NA	<1.0 ppm
Mercury	<0.1 ppm	NA	NA	<0.5 ppm
Potassium	18.8 %	NA	NA	14.2 - 19.4 %

Respectfully Submitted,
Chemical Solutions, Ltd.

Kelli Dempsey
QA Representative

Kelli Dempsey
Reviewed and Approved
Aug 20 2019 5:35 PM

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Notes:

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The units for the PQL are the same as those shown for the result.