## ABC Testing

## Advanced Botanical Consulting & Testing, Inc.

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



Client Sample ID: Chondroitin Sulfate (Porcine)

Product #:

Lot#: 81700138/ 042619-02 Lab Number: 271386 Received Date: 07/03/2019

Report Date:

07/12/2019

$\mathbf{A}$	nal	ys	es

## **Results**

90. 10% (as is basis)
0.011 ppm
0.004 ppm
0.002 ppm
0.057 ppm

Method: ALC150A (JAOAC, 2007), ICP/MS

Analyzed by:

Chemist

\_ Approved by: -

Vendi Wang, PħD, President



04 26 19 - 0 2 Revision 10 (12/07/2018)

Certificate of Analysis
\*\*\*Do Not Feed to Cattle or other Ruminants\*\*\*

Description: Chondroitin Sulfate Sodium 90% Dry Basis Porcine

Customer:

Customer PO: 41292

Lot: 802181103 /

Ship Date: 04/22/2019

Customer Item: 81700138 /

General Properties	Specification eral Properties		Test Method	Result ‡
Appearance	White to off-white powder		Visual	0
Odor	Characteristic		Aroma	Complies
Bulk density loose (gm/cc)	>= 0.48		Loose fill	Complies
Particle size thru # 14 (%)	= 100			0.63
Particle size thru # 200 (%)	= 100	<= 60	Rotap 5 minutes Rotap 5 minutes	100
<b>V</b>			riotap 3 minutes	Complies
nalytical				
Assay Chondroitin Sulfate Sodium CPC (% Dry Basis)	>= 90.0	<= 105.0	USP curr. edit.	91.3
Assay Chondroitin Sulfate Sodium EHPLC (% Dry Basis)	>= 90.0		Enzymatic HPLC	Complies**
Identification A	Meets the requirements		USP curr. edit.	Complies**
Loss on drying (%)		<= 10	USP curr. edit.	9
рН	>= 5.5	<= 7.5	USP curr. edit.	6.2
Protein (%)		<= 6.0	USP curr. edit.	< 6.0
Specific rotation (deg)	>= -30.0	<= -20.0	USP curr. edit.	-26.1
ROI (%)	>= 20.0	<= 30.0	USP curr. edit.	23.8
Chloride (%)		<= 0.50	USP curr. edit.	< 0.5
Sulfate (%)		<= 0.24	USP curr. edit.	<0.24
Lead (ppm)		<= 0.5	ICP-MS	< 0.5
Arsenic (ppm)		<= 1.5	ICP-MS	< 1.5
Cadmium (ppm)		<= 0.5	ICP-MS	< 0.5
Mercury (ppm)		<= 0.2	ICP-MS	< 0.2
OVI	Meets the requirements		USP curr. edit.	Complies
<u>crobiological</u>				-
AND THE RESIDENCE OF THE PARTY				
APC (CFU/gm)		<= 1000	USP curr. edit.	< 1000
Yeast/mold (CFU/gm)		<= 100	USP curr. edit.	< 10
E. coli (10 gm)	Negative		USP curr. edit.	Negative
Salmonella (10 gm)	Negative		USP curr. edit.	Negative

## Additional Information

Manufacture date Expiration date

11/03/2018

Storage condition

11/02/2020

Cool dry place sealed in light resistant container

Manufactured by

Haiyang Sanfeng Biochemical Co. Ltd

Country of origin

China

Approved By:

Kevin Woollard Director of QA

Date: 04/25/2019

The information contained in this certificate of analysis is believed to be accurate and is offered in good faith. Pharmore ingredients, however, cannot guarantee against natural product variations, patent infringement, liabilities or risk involved from the use of this product. Customer assumes all liability with the use of this product.

<sup>‡</sup> Test results based on information supplied by the manufacturer, unless otherwise noted.

<sup>\*\*</sup> Based on results from Pharmore's sampling plan.