

## **Certificate of Analysis**

**Description: Sodium Hyaluronate HA** 

Lot: 385190116101

General Properties	Specification	<u>n</u>	Test Method	Result <sup>‡</sup>
Appearance Bulk density loose (gm/cc) Particle size thru # 80 (%)	White powder >=0.15 >= 90	<=0.30	Visual Loose fill Rotap 5 minutes	Complies 0.29 Complies
Analytical				Complies
Assay Hyaluronic Acid (% Dry Basis)	>= 93 >= 88 >= 45		By Calculation By calculation	97 91
Loss on drying (%)		<= 8.0 <= 8.0	UV-Vis USP curr. edit. USP curr. edit.	7.8 6.1
Protein (%)		<= 0.1 <= 1700	USP curr. edit. USP curr. edit	0.1 1400
Lead (ppm) Arsenic (ppm)		<= 0.5 <= 1.5	ICP-MS	<0.5 <1.5
Cadmium (ppm) Mercury (ppm)		<= 0.5 <= 0.2	ICP-MS ICP-MS	<0.5 <0.2
Microbiological APC (CFU/gm) Yeast/mold (CFU/gm)	Security in the contract of th	<=1000 <= 100	USP curr. edit.	<100
E, coli (10 gm) Salmonella (10 gm)	Negative Negative	~- 100	USP curr. edit. USP curr. edit. USP curr. edit.	< 100 Negative Negative

## **Additional Information**

Manufacture date **Expiration date** 

01/16/2019 01/15/2022

Storage condition

Cool dry place sealed in light resistant container

Manufactured by

Country of origin

China

Approved By:

Kevin Woollard **Director of QA**  Date: 02/13/2019

‡ Test results based on information supplied by the manufacturer, unless otherwise noted.

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> Based on results from Pharmore's sampling plan.