

Certificate of Analysis

Description: Sodium Hyaluronate HA

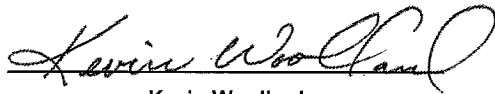
Lot: 38618101156

	<u>Specification</u>		<u>Test Method</u>	<u>Result</u> ‡
General Properties				
Appearance	White powder		Visual	Complies
Bulk density loose (gm/cc)	>=0.15	<=0.30	Loose fill	Complies
Particle size thru # 80 (%)	>= 90		Rotap 5 minutes	Complies
Analytical				
Assay Sodium Hyaluronate (% Dry Basis)	>= 93		By Calculation	96
Assay Hyaluronic Acid (% Dry Basis)	>= 88		By calculation	Complies**
Assay Glucuronic Acid (% Dry Basis)	>= 45		UV-Vis	Complies**
Loss on drying (%)		<= 8.0	USP curr. edit.	6.9
pH	>= 6.0	<= 8.0	USP curr. edit.	6.7
Protein (%)		<= 0.1	USP curr. edit.	0.1
Molecular weight (kDA)	>= 1300	<= 1700	USP curr. edit	1450
Lead (ppm)		<= 0.5	ICP-MS	Complies**
Arsenic (ppm)		<= 1.5	ICP-MS	Complies**
Cadmium (ppm)		<= 0.5	ICP-MS	Complies**
Mercury (ppm)		<= 0.2	ICP-MS	Complies**
Microbiological				
APC (CFU/gm)		<=1000	USP curr. edit.	< 100
Yeast/mold (CFU/gm)		<= 100	USP curr. edit.	< 50
E. coli (10 gm)	Negative		USP curr. edit.	Negative
Salmonella (10 gm)	Negative		USP curr. edit.	Negative

Additional Information

Manufacture date 10/11/2018
 Expiration date 10/11/2020
 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.

** Based on results from Pharmore's sampling plan.

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.