



Stanford Chemicals Company

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Certificate of Analysis

Product Name:	Sodium Hyaluronate	Origin:	Fermentation
Batch No.:	150928	Manufacturing Date:	8/26/2015
Analysis Date:	8/27/2015	Retest Date:	8/27/2017
Item No.:	HAC-N	Grade:	Cosmetic Grade

<u>Items</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White powder	White powder
Sodium Hyaluronate	≥91%	99.24 %
Glucuronic acid	≥44.0%	48.25%
Molecular weight	200K Da- 600K Da	500 K Da
pH (0.1% solution)	6.0-7.5	7.1
Transparency (0.1% solution)	$A_{600\text{ nm}} < 0.01$	Complies
Protein	≤0.1%	0.01%
Heavy metal	≤10 ppm	Complies
Arsenic	≤2 ppm	Complies
Loss on drying	≤10.0%	6.5%
Bacterial counts	≤50cfu/g	Complies
Mold and Yeast	≤10cfu/g	Complies
Staphylococcus aureus	Negative	Complies
Pseudomonas aeruginosa	Negative	Complies

Conclusion

Qualified

Stored: Store in a dry and cool place.

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By