

Certificate of Analysis

Product Name:	Sodium Hyaluronate	Origin:	Fermentation
Batch No.:	150824	Manufacturing Date:	8/17/2015
Analysis Date:	8/19/2015	Retest Date:	8/17/2016
Item No.:	HAF-N	Grade:	Food Grade

<u>Items</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White powder	White powder
Sodium Hyaluronate	≥91%	99%
Glucuronic acid	≥44%	47.88%
Molecular weight	200 K Da – 600 K Da	300 K Da
pH (0.1% solution)	6.0-7.5	6.8
Transparency (0.1% solution)	99%	99.8%
Protein	≤0.1%	0.07%
Heavy metal	≤10ppm	Complies
Arsenic	≤2ppm	Complies
Loss on drying	≤10.0%	4.96%
Bacterial counts	≤50cfu/g	Complies
Mold and Yeast	≤10cfu/g	Complies
Staphylococcus aureus	Negative	Complies
Pseudomonas aeruginosa	Negative	Complies

Conclusion

Stored: Store in a dry and cool place.

Qualified

Stanford Chemicals Company

By

