Stanford Chemicals Company
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Certificate of Analysis

Product Name:	Sodium Hyaluronate	**Origin:**	Fermentation
Intrinsic Viscosity:	0.5~1.0 m3/kg	**Intended Use:**	For the manufacture of oral dosage preparations or parenteral (not include intra-ocular or intra-articular) preparations
Batch No.:	SCC15110401	**Manufacturing Date:**	11/4/2015
Analysis Date:	11/4/2015	**Retest Date:**	11/4/2017
Standard:	Ph. Eur. 7.0	**Grade:**	HA-PM-0.5

Items	**Specifications**	**Results**
Appearance	White or almost white powder or fibrous aggregates	White powder
Identification		
A. Infrared absorption	Complies with Ph. Eur. Reference spectrum of Sodium hyaluronate	Complies
B. Reaction of sodium	Positive	Positive
Appearance of solution	Clear, A_{600nm}< 0.01	Clear, 0.00
pH	5.0-8.5	6.7
Intrinsic viscosity	0.5~1.0m^3/kg	0.87 m^3/kg
Molecular Weight		37 K Da
Nucleic acids	A_{260nm}< 0.5	0.08
Protein	≤0.1%	0.00%
Heavy metal	≤20ppm	<20ppm
Chlorides	≤0.5%	<0.5%
Iron	≤30ppm	<30ppm
Loss on drying	≤20.0%	7.0 %
Residual solvents(Ethanol)	≤5000 ppm	748 ppm
Microbial contamination	≤100cfu/g	<20cfu/g
Bacterial endotoxins	≤0.5 IU/mg	<0.5 IU/mg
Assay(on dried substance)	95%~105%(dried substance)	95.9%

Stored: Store in a cool, dry location in a tightly sealed container.

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By