Stanford Chemicals Company
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Certificate of Analysis

Product Name:	Sodium Hyaluronate	**Origin:**	Fermentation
Intrinsic Viscosity:	2.7~3.6m3/kg	**Standard:**	HA-EM-3.0
Lot No.:	OC190718-9004	**Manufacturing Date:**	6/8/2019
Analysis Date:	6/15/2019	**Retest Date:**	6/17/2017

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	6.2
Intrinsic viscosity	2.7~3.6m3/kg	3.31 m^3/kg
Nucleic acids	A_{260nm}< 0.5	0.01
Protein	≤0.1%	0.00%
Heavy metal	≤10ppm	<10ppm
Chlorides	≤0.5%	<0.5%
Iron	≤30ppm	<30ppm
Loss on drying	≤20.0%	9.1 %
Residual solvents(Ethanol)	≤5000 ppm	24 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)	100.9%

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

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By