

## Certificate of Analysis

Product Name: Sodium Hyaluronate

Grade: Cosmetic Grade HAC-L-SC

Batch No.:23071701(OC230825-18437)

Production Date: July.17th, 2023

Total Quantity: 312kg

Expiry Date: July.16th, 2025

Item	Standard	Result
Appearance	White or almost white powder or granule	Complied
Glucuronic acid	$\geq 45.0\%$	46.4%
Sodium hyaluronate	$\geq 93.0\%$	95.9%
pH(0.5% aq. sol., 25°C)	5.0~8.5	6.2
Appearance of Solution	$A_{600nm} \leq 0.01$	Complied
Nucleic Acids	$A_{260nm} \leq 0.5$	Complied
Loss on drying	$\leq 10.0\%$	9.11%
Molecular weight	100-1,000 K Da	$7.9 \times 10^5$ Da
Intrinsic viscosity	measured value	14.38dL/g
Iron	<80ppm	Complied
Protein	$\leq 0.1\%$	0.03%
Heavy metal (as Pb)	$\leq 20$ mg/kg	Complied
Bacteria counts	$\leq 100$ CFU/g	Complied
Molds & Yeasts	$\leq 50$ CFU/g	Complied
Staphylococcus aureus	Negative/g	Negative
Pseudomonas aeruginosa	Negative/g	Negative

**Stanford Chemicals Company**

By

