

Certificate of Analysis

Product Name: Sodium hyaluronate HAC-L

Grade: Cosmetic grade

Batch No.: OC210325-13033(2021031681)

Production Date: 2021.02.26

Total Quantity: 207kg

Expiry Date: 2023.02.25

Item	Standard	Result
Appearance	White or almost white powder or granule	Complied
Glucuronic acid	≥45.0%	47.2%
Sodium hyaluronate	≥93.0%	97.6%
pH(0.5% aq. sol., 25°C)	5.0~8.5	7.0
Absorbance(0.5% aq. sol., 25°C)	A _{280nm} ≤0.25	0.09
Transmittance(0.5% aq. sol., 25°C)	T _{550nm} ≥99.0%	99.9%
Loss on drying	≤10.0%	5.8%
Molecular weight	measured value	8.2*10 ⁵
Intrinsic viscosity	measured value	14.8 dL/g
Kinematic viscosity	measured value	26.3 mm ² /s
Protein	≤0.1%	0.04%
Heavy metal (as Pb)	≤20 mg/kg	<10mg/kg
Bacteria counts	≤100CFU/g	Complied
Molds & Yeasts	≤50CFU/g	Complied
Staphylococcus aureus	Negative/g	Negative
Pseudomonas aeruginosa	Negative/g	Negative

Stanford Chemicals Company

By

