

## Certificate of Analysis

Product Name: Sodium hyaluronate

Grade: Cosmetic grade

Batch No.: OC210426-13269

Production Date: 04.05.2021

Total Quantity: 208kg

Expiry Date: 04.04.2023

| Item                               | Standard                                | Result                  |
|------------------------------------|---|-------------------------|
| Appearance                         | White or almost white powder or granule | Complied                |
| Glucuronic acid                    | ≥45.0%                                  | 47.3%                   |
| Sodium hyaluronate                 | ≥93.0%                                  | 97.8%                   |
| pH(0.5% aq. sol., 25°C)            | 5.0~8.5                                 | 7.1                     |
| Absorbance(0.5% aq. sol., 25°C)    | A <sub>280nm</sub> ≤0.25                | 0.10                    |
| Transmittance(0.5% aq. sol., 25°C) | T <sub>550nm</sub> ≥99.0%               | 99.9%                   |
| Loss on drying                     | ≤10.0%                                  | 6.8%                    |
| Molecular weight                   | measured value                          | 8.6*10 <sup>5</sup>     |
| Intrinsic viscosity                | measured value                          | 15.3 dL/g               |
| Kinematic viscosity                | measured value                          | 26.7 mm <sup>2</sup> /s |
| Protein                            | ≤0.1%                                   | 0.03%                   |
| 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

