

# Certificate Of Analysis

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|--------------|-------------------------------------------|
| Product Name | Hyaluronic Acid (HIGHER MOLECULAR WEIGHT) |
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|            |                    |
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| INCI Name: | Sodium Hyaluronate |
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| Expiry Date: | January 2029 |
|--------------|--------------|

|               |          |
|---------------|----------|
| Batch Number: | HY344098 |
|---------------|----------|



| Analytical Test                             | Specification                                 | Result                         |
|---------------------------------------------|-----------------------------------------------|--------------------------------|
| Appearance                                  | White or almost white granule or powder       | White powder                   |
| Impurity                                    | No visible exogenous                          | Pass                           |
| Appearance of Solution                      | Clear and the absorbance is NMT 0.01 at 600nm | Clear, A600nm=0.001            |
| Clucuronic acid (QB/T 4576)                 | ≥43.5%                                        | 47.4%                          |
| Sodium Hyaluronate (QB/T 4576)              | ≥90.0%                                        | 97.30%                         |
| Nucleic Acids (Eur 9.0)                     | The absorbance is NMT 0.05 at 260nm           | 0.013                          |
| pH (0.5% aqueous solution @ 25°C) (Eur 9.0) | 5.0 - 8.5                                     | 6.90                           |
| Molecular Weight (QB/T 4576)                | 0.80 - 1.50 x 10 <sup>6</sup> Daltons         | 1.10 X 10 <sup>6</sup> Daltons |
| Intrinsic Viscosity (QB/T 4416)             | Measure Value                                 | 18.54DI/g                      |
| Protein (CP)                                | ≤0.1%(on the dried substance)                 | <(0.03%)                       |
| Loss on Drying (GB 5009.3)                  | ≤10%                                          | 7.8%                           |
| Residue on Ignition (CP)                    | ≤20%                                          | ≤20%                           |
| Chloride (Eur 9.0)                          | ≤0.5%                                         | ≤0.5%                          |
| Iron (Eur 9.0)                              | ≤80 ppm(on the dried substance)               | <80 ppm                        |
| Heavy Metal (QB/T 4576)                     | ≤20 ppm                                       | ≤20 ppm                        |
| Lead (GB 5009.12)                           | ≤10.0 mg/kg                                   | ≤10.0 mg/kg                    |
| Arsenic (GB 5009.11)                        | ≤2.0 mg/kg                                    | ≤2.0 mg/kg                     |

|                                   |                        |      |
|-----------------------------------|------------------------|------|
| Bacteria Counts                   | (QB/T 4416) ≤100 CFU/g | Pass |
| Molds & Yeasts (QB/T 4416)        | ≤100 CFU/g             | Pass |
| Staphylococcus aureus (QB/T 4416) | Negative/25g           | Pass |
| Salmonella (GB 4789.4)            | Negative/25g           | Pass |
| Coliform bacteria (CP)            | Negative/g             | Pass |

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions. This report is not to be signed. All data are as per our supplier.

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