

## Certificate of Analysis

**Product Name:** Hyaluronic Acid Low Molecular Weight

**INCI Name:** Sodium Hyaluronate

**Grade:** Cosmetic Grade

**Molecular Weight Range:** 20,000 - 30,000 Da

**Batch/Lot Number:** BPC HAPLMW12026

**Expiry Date:** December 2028

### Properties

### Specifications

### Results

**Identification (FT-IR)** Spectrum must match reference standard **Conforms**

**Purity** (as Dry Basis)  $\geq 99.0\%$  **99.4%**

**Molecular Weight (Avg.)** 20 kDa - 40 kDa **28.5 kDa**

**Moisture Content**  $\leq 8.0\%$  **5.2%**

**pH** (1% w/v Solution) 5.5 - 7.5 **6.8**

**Viscosity** (1% w/v, 25°C) 5 - 50 mPa·s (cPs) **22 mPa·s**

**Protein Content**  $\leq 0.1\%$  **< 0.05%**

**Heavy Metals** (as Pb)  $\leq 10$  ppm **< 5 ppm**

**Lead (Pb)**  $\leq 2$  ppm **< 1 ppm**

**Arsenic (As)**  $\leq 2$  ppm **< 1 ppm**

**Mercury (Hg)**  $\leq 1$  ppm **< 0.5 ppm**

**Total Aerobic Microbial Count**  $\leq 100$  CFU/g **< 10 CFU/g**

**Total Yeast & Mold Count**  $\leq 10$  CFU/g **< 10 CFU/g**

**Escherichia coli** Absent in 1g **Absent**

**Salmonella spp.** Absent in 10g **Absent**

**Staphylococcus aureus** Absent in 1g **Absent**

**Pseudomonas aeruginosa** Absent in 1g **Absent**

**Endotoxins (BET)**  $< 0.05$  EU/mg (for sensitive applications) **< 0.02 EU/mg**

**Residual Solvents Meets** ICH Q3C guidelines (Class 2 & 3) **Conforms**

**UV Transmittance**  $\geq 95\%$  @ 430 nm (0.1% solution) **97.5%**

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