

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: BPCHAPLMW12026

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) $\leq 10\text{ ppm}$ < 5 ppm

Lead (Pb) $\leq 2\text{ ppm}$ < 1 ppm

Arsenic (As) $\leq 2\text{ ppm}$ < 1 ppm

Mercury (Hg) $\leq 1\text{ ppm}$ < 0.5 ppm

Total Aerobic Microbial Count $\leq 100\text{ CFU/g}$ < 10 CFU/g

Total Yeast & Mold Count $\leq 10\text{ CFU/g}$ < 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) $< 0.05\text{ EU/mg}$ (for sensitive applications) $< 0.02\text{ EU/mg}$

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

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

This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge and specifications. The analysis and statements herein constitute the most complete information available to Botanic Planet Canada Inc. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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