

Certificate of Analysis

Date of Testing: 2022-09-27 11:20:58
 Date of Next Testing: 2026-09-26 11:20:58
 Product Name: **Hyaluronic acid sodium salt from Streptococcus equi**
 CAS Number: 9067-32-7
 Specifications & Purity: 95%
 Lot #: I2222032
 SKU #: **H107141**
Analysis: 119660
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Molecular Weight	1350000-1650000	1350000.00
Loss on drying	0-10 (%)	8.00 %
Purity(as dry basis)	95-105 (%)	95.70 %
total bacterial count	0-100 (cfu/g)	55.00 cfu/g
Ignition Residue	0-20 (%)	19.00 %
PH	6-8	6.30
Protein Content	0-0.15 (%)	0.03 %
Heavy metals	0-20 (ppm)	13.00 ppm
Chloride (Cl-)	0-0.5 (%)	0.30 %
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	61.00 cfu/g
Glucuronic acid	≥42 (%)	46.30 %
Appearance of Solution(A600)	0-0.01	0.01
Iron(Fe)	0-80 (ppm)	75.00 ppm
Nucleic Acids(A257)	0-0.3	0.25
Appearance (H107141)	White to Off-White Powder or Granules	White to Off-White Powder or Granules
Pseudomonas Aeruginosa	Negative	Negative
Staphylococcus Aureus	Negative	Negative
Appearance (solution)	passes test	Passes test
Escherichia Coli	none detected	none detected



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager