

Certificate of Analysis

Date of Testing: 2022-09-27 11:10:30
 Date of Next Testing: 2026-09-26 11:10:30
 Product Name: **Hyaluronic acid sodium salt from Streptococcus equi**
 CAS Number: 9067-32-7
 Specifications & Purity: 95%
 Lot #: I2222164
 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

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager