

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-26 09:22:48

Date of Next Testing: 2028-08-25 09:22:48

Product Name: **Chondroitin sulfate sodium (from Porcine Cartilage)**

CAS Number: 9082-07-9

Specifications & Purity: $\geq 90\%$

Lot #: H2513471

SKU #: **C774029**

Version: **1**

Analysis #: **489435**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged, Desiccated

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=3 in H ₂ O)	-30~-20 (°)	-25.50000 °
Purity(HPLC)	90-100 (%)	90.60000 %
PH(1% in H ₂ O)	5.5-7.5	6.70000
Loss on drying	0-10 (%)	8.30000 %
Protein	0-3.5 (%)	3.00000 %
Residue on Ignition	20-30 (%)	24.40000 %
Sulfur(S)	5.5-7.5 (%)	6.90000 %
Heavy metals	0-20 (ppm)	10.00000 ppm
Nitrogen by Elemental Analysis	2.5-3.5 (%)	2.70000 %
Chloride (Cl ⁻)	0-0.5 (%)	0.40000 %
Arsenic(As)	0-2 (ppm)	1.00000 ppm
Total Plate Count	0-1000(CFU/g)	1000.00000 cfu/g
Yeast and Mold	0-100 (CFU/g)	100.00000 cfu/g
Cadmium(Cd)	0-1.5 (ppm)	1.34000 ppm
Lead(Pb)	0-5 (ppm)	4.33000 ppm
Mercury(Hg)	0-5 (ppm)	4.33000 ppm
Residual solvents	0-0.5 (%)	0.20000 %
Sulfate(SO ₄ ²⁻)	0-0.24 (%)	0.24000 %
Sodium(Na)	0-7 (%)	7.00000 %
Appearance(C774029)	Fine white powder	Fine white powder
E.coli	Negative	Negative
Salmonella	negative	Negative
Identification NIR/USP	Complied	Complied
Chondroitin A to C Ratio:1:5	Pass	Pass
Staphylococcus Aureus	Negative	Negative



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Parameter

Solubility(1% H₂O),Clear Solution

Limit Values

Pass

Result

Pass

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

John Su
QA & QC Manager