

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-27 14:40:23

Date of Next Testing: 2026-07-26 14:40:23

Product Name: **Chondroitin sulfate sodium salt from shark cartilage**

CAS Number: 9007-28-7

Specifications & Purity: $\geq 95\%$

Lot #: G2225022

SKU #: **C107703**

Version: **0**

Analysis #: **054593**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in } H_2O)}$	-20--10 (°)	-17.66100 °
Sulfur by Elemental Analysis	≥ 4 (%)	5.65000 %
Sodium(ICP)	≥ 4 (%)	7.85000 %
Residual solvents	0-4 (%)	2.33000 %
Water by Karl Fischer	0-10 (%)	2.00430 %
Purity(HPLC)	95-100 (%)	95.98700 %
Appearance (C107703)	White to Off-White Powder	White to Off-White Powder
6-Sulfate:4-Sulfate ratio(HPLC)	$\geq 0.33:1$	$\geq 0.33:1$
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in 0.9% Sodium Chloride	Colorless to faint yellow,Clear to hazy,10mg/ml	Colorless to faint yellow,Clear to hazy,10mg/ml



John Su
QA & QC Manager