

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-01-21 13:27:49  
Date of Next Testing: 2026-01-20 13:27:49  
Product Name: **Chondroitin sulfate sodium salt from shark cartilage**  
CAS Number: 9007-28-7  
Specifications & Purity:  $\geq 95\%$   
Lot #: C1809095  
SKU #: **C107703**  
Version: **0**  
Analysis #: **068861**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-10 (%)	5.63200 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	-20--10 (°)	-16.80000 °
Sulfur by Elemental Analysis	$\geq 4$ (%)	5.00000 %
Sodium(ICP)	$\geq 4$ (%)	5.00000 %
Residual solvents	0-4 (%)	3.90000 %
Purity(HPLC)	95-100 (%)	95.23200 %
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