

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-07-10 17:30:58
 Date of Next Testing: 2028-07-09 17:30:58
 Product Name: **Chondroitin sulfate sodium salt from shark cartilage**
 CAS Number: 9007-28-7
 Specifications & Purity: $\geq 95\%$
 Lot #: G2404191
 SKU #: **C107703**
 Version: **0**
 Analysis #: **372563**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-10 (%)	2.97000 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in } H_2O)}$	-20--10 (°)	-16.93200 °
Sulfur by Elemental Analysis	≥ 4 (%)	4.05000 %
Sodium(ICP)	≥ 4 (%)	4.02000 %
Residual solvents	0-4 (%)	0.32000 %
Purity(HPLC)	95-100 (%)	97.37300 %
Appearance (C107703)	White to Off-White Powder	White to Off-White Powder
6-Sulfate:4-Sulfate ratio(HPLC)	$\geq 0.33:1$	$\geq 0.33:1$
Solubility in 0.9% Sodium Chloride	Colorless to faint yellow, Clear to hazy, 10mg/ml	Colorless to faint yellow, Clear to hazy, 10mg/ml
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager