

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-18 11:32:43

Date of Next Testing: 2025-11-17 11:32:43

Product Name: **Heparan Sulfate**

CAS Number: 9050-30-0

Specifications & Purity: Potency ≥ 50 IU/mg

Lot #: K2216786

SKU #: **H304938**

Version: **2**

Analysis #: **120918**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
potency	≥ 50 (IU/mg OR I.U./mg)	58.00000 IU/mg OR I.U./mg
Loss on drying	≤ 5.0 (%)	2.50000 %
Light absorption 260nm	≤ 0.45	0.31000
Light absorption 280nm	≤ 0.35	0.19800
pH	5.5 -7.5	6.50000
Bacteria counts	≤ 100 (cfu/g)	23.50000 cfu/g
Molds and yeasts	≤ 10 (cfu/g)	4.20000 cfu/g
Appearance(H304938)	White to off-white	white to off-white to yellow powder
Impurity(NMR)(The N-acetyl protons of heparin show a single peak at 2.04 $\pm$ 0.02ppm. No peak should be visible at 2.16 $\pm$ 0.03ppm.(Not included 13C satellite peak).)	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager