

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-06-30 10:20:27  
 Date of Next Testing: 2029-06-29 10:20:27  
 Product Name: **Heparin sodium salt**  
 CAS Number: 9041-08-1  
 Specifications & Purity: Moligand™, ≥180(units/mg)  
 Lot #: F2513138  
 SKU #: **H104201**  
 Version: **1**  
 Analysis #: **363521**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                  | Limit Values              | Result                    |
|--------------------------------------------|---------------------------|---------------------------|
| potency                                    | ≥180(units/mg)            | 222.00000 units/mg        |
| Nitrogen by Elemental Analysis (anhydrous) | 1.3-2.5 (%)               | 2.10000 %                 |
| Ignition Residue                           | 28-41 (%)                 | 38.50000 %                |
| Heavy metals                               | 0-30 (ppm)                | 12.00000 ppm              |
| pH                                         | 5-7.5                     | 6.60000                   |
| Loss on drying                             | 0-5 (%)                   | 1.60000 %                 |
| Appearance (H104201)                       | White to Off-White Powder | White to Off-White Powder |
| Proton NMR spectrum                        | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager