

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-04-27 10:57:07

Date of Next Testing: 2028-04-26 10:57:07

Product Name: **Hyaluronic acid (HA-THM)**

CAS Number: 9067-32-7

Specifications & Purity: molecular weight  $\geq 1.8\text{MDa}$

Lot #: D2521221

SKU #: **H293496**

Version: **1**

Analysis #: **497543**

Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter                              | Limit Values                         | Result                               |
|----------------------------------------|--------------------------------------|--------------------------------------|
| PH (0.10g/100ml water)                 | 6.0-7.5                              | 6.50000                              |
| Transmittance (0.5% in water)          | > 99 (%)                             | 99.80000 %                           |
| loss on drying(110°C,15min)            | <15 (%)                              | 8.00000 %                            |
| Molecular Weight                       | $\geq 1800000$ (Da)                  | 2040000.00000 Da                     |
| Protein                                | <0.05 (%)                            | 0.02500 %                            |
| Heavy metals                           | <20 (ppm)                            | 10.00000 ppm                         |
| Glucuronic acid                        | > 46 (%)                             | 47.00000 %                           |
| Sodium hyaluronate                     | > 95 (%)                             | 97.20000 %                           |
| intrinsic viscosity                    | $\geq 27.2$ (DL/G)                   | 30.10000 DL/G                        |
| Appearance (H293496)                   | white to off white powder or Granule | white to off white powder or Granule |
| Infrared spectrum                      | Conforms to Structure                | Conforms to Structure                |
| Response to the tests for Sodium (ICP) | conforms                             | Conforms                             |
| Microbial Detection                    | Pass                                 | Pass                                 |



John Su  
QA & QC Manager