

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

### Certificate of Analysis

Date of Testing: 2024-12-10 18:11:27  
Date of Next Testing: 2028-12-09 18:11:27  
Product Name: **Hyaluronic acid (HA-TLM)**  
CAS Number: 9067-32-7  
Specifications & Purity: 800KDa~1.0MDa  
Lot #: L2407044  
SKU #: **H293501**  
Version: **1**  
Analysis #: **438023**  
Storage Temperature: Store at -20°C

| Parameter                             | Limit Values                         | Result                               |
|---------------------------------------|--------------------------------------|--------------------------------------|
| intrinsic viscosity                   | <17.3 (DL/G)                         | 15.80000 DL/G                        |
| Heavy metals                          | 0-20 (ppm)                           | 12.01000 ppm                         |
| PH (0.10g/100ml water)                | 6.0-7.5                              | 6.30000                              |
| Transmittance(0.5g/100ml water,550nm) | >99 (%)                              | 99.90000 %                           |
| loss on drying(110°C,15min)           | <10 (%)                              | 5.90000 %                            |
| Appearance(H293501)                   | white to off white powder or Granule | white to off white powder or Granule |
| Infrared spectrum                     | Conforms to Structure                | Conforms to Structure                |
| ICP: Confirms Sodium Component        | Confirmed                            | Confirmed                            |



John Su  
QA & QC Manager