

Certificate of Analysis

Date of Testing: 2024-01-22 12:14:09
Date of Next Testing: 2027-01-21 12:14:09
Product Name: **Hyaluronic acid (HA-THM)**
CAS Number: 9067-32-7
Specifications & Purity: molecular weight ≥ 1.8 MDa
Lot #: A2419395
SKU #: **H293496**
Version: **1**
Analysis #: **313434**
Storage Temperature: Store at -20°C, Argon charged

| Parameter | Limit Values | Result |
|--|--------------------------------------|--------------------------------------|
| PH (0.10g/100ml water) | 6.0-7.5 | 6.60000 |
| Molecular Weight | ≥ 1800000 (Da) | 21200000.00 Da |
| intrinsic viscosity | ≥ 27.2 (DL/G) | 31.00000 DL/G |
| Protein | <0.05 (%) | 0.02700 % |
| Heavy metals | <20 (ppm) | 12.30 ppm |
| Glucuronic acid | > 46 (%) | 46.90 % |
| Sodium hyaluronate | > 95 (%) | 96.70000 % |
| Transmittance (0.5% in water) | > 99 (%) | 99.90000 % |
| loss on drying(110°C,15min) | <15 (%) | 7.70000 % |
| 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