

## Certificate of Analysis

Date of Testing: 2023-09-06 14:22:26  
Date of Next Testing: 2026-09-05 14:22:26  
Product Name: **Hyaluronic acid (HA-THM)**  
CAS Number: 9067-32-7  
Specifications & Purity: molecular weight  $\geq$ 1.8MDa  
Lot #: I2301095  
SKU #: **H293496**  
**Analysis: 261069**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
PH (0.10g/100ml water)	6.0-7.5	6.50000
Transmittance (0.5% in water)	> 99 (%)	99.90000 %
loss on drying(110°C,15min)	<15 (%)	7.70000 %
Molecular Weight	$\geq$ 1800000 (Da)	2190000.00 Da
intrinsic viscosity	$\geq$ 27.2 (DL/G)	31.80000 DL/G
Protein	<0.05 (%)	0.02600 %
Heavy metals	<20 (ppm)	10.00 ppm
Glucuronic acid	> 46 (%)	47.40 %
Sodium hyaluronate	> 95 (%)	98.00000 %
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