

## Certificate of Analysis

Date of Testing: 2022-07-30 10:25:45  
Date of Next Testing: 2025-07-29 10:25:45  
Product Name: **Hyaluronic acid (HA-THM)**  
CAS Number: 9067-32-7  
Specifications & Purity: molecular weight  $\geq 1.8$ MDa  
Lot #: G2222436  
SKU #: **H293496**  
**Analysis: 113375**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
PH (0.10g/100ml water)	6.0-7.5	6.40000
Transmittance (0.5% in water)	> 99 (%)	99.90000 %
loss on drying(110°C,15min)	<15 (%)	8.70000 %
Molecular Weight	$\geq 1800000$ (Da)	2180000.00 Da
intrinsic viscosity	$\geq 27.2$ (DL/G)	31.70000 DL/G
Protein	<0.05 (%)	0.02400 %
Heavy metals	<20 (ppm)	16.00 ppm
Glucuronic acid	> 46 (%)	47.40 %
Sodium hyaluronate	> 95 (%)	97.90000 %
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