

**Certificate of Analysis**  
(Representative Sample Certificate)

**Product Name:** Hyaluronic Acid MMW  
**INCI Name:** Sodium hyaluronate  
**CAS Number:** 9067-32-7  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 24 months from production date

Property	Specification	Analysis
Appearance	Fine white or white powder	Pass
Odor	Odorless	Pass
Glucuronic Acid	46.0% MIN	47.1%
Sodium Hyaluronate	95.0% MIN	97.4%
Molecular Weight	100,000-500,000 Da	420,000 Da
pH (0.1% Water Solution)	6.0-7.5	Pass
Protein	0.05% MAX	0.04%
Limiting Viscosity	2.8-10.0 dl/g	8.76 dl/g
Transparency (0.1% Water Solution)	99.0% MIN	99.8%
Residue on Ignition	20.0% MAX	Pass
Loss on Drying	10.0% MAX	7.1%
Heavy Metals (as Pb)	20 ppm MAX	<10 ppm
Arsenic	2 ppm MAX	<2 ppm
Hemolysis	Negative	Negative
Total Plate Count	100 CFU/g MAX	Pass
Total Yeast & Mold	50 CFU/g MAX	Pass
Pseudomonas aeruginosa	Negative	Negative
Staphylococcus aureus	Negative	Negative
Viable hemolytic streptococcus	Negative	Negative

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed. All data are as per our supplier.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.