

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)
Re-test Date: 24 months from production date

Property	Specification	Analysis
Appearance (Visual)	Fine white or white powder	Pass
Odor (Organoleptic)	Odorless	Pass
Glucuronic Acid (QB/T 4416-2012)	46.0% MIN	47.1%
Sodium Hyaluronate (QB/T 4416-2012)	95.0% MIN	97.4%
Molecular Weight (QB/T 4416-2012)	100,000 - 500,000 Da	400,000 Da
pH (0.1% Water Solution) (QB/T 4416-2012)	6.0 - 7.5	6.4
Protein (In-house)	0.05% MAX	0.04%
Limiting Viscosity (In-house)	2.8 - 10.0 dl/g	8.43 dl/g
Transparency (0.1% Water Solution) (QB/T 4416-2012)	99.0% MIN	100%
Residue on Ignition (CP2010)	20.0% MAX	16.1%
Loss on Drying (QB/T 4416-2012)	10.0% MAX	7.8%
Heavy Metals (as Pb) (CP2010)	20 ppm MAX	<10 ppm

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 themselves as to the suitability & completeness of such information for their own particular use.

Arsenic (ICP-MS)	2 ppm MAX	0.068 ppm
Hemolysis (In-house)	Negative	Negative
Total Plate Count (QB/T 4412-2012)	100 CFU/g MAX	<10 CFU/g
Total Yeast & Mold (QB/T 4412-2012)	50 CFU/g MAX	<10 CFU/g
Pseudomonas aeruginosa (In-house)	Negative	Negative
Staphylococcus aureus (QB/T 4412-2012)	Negative	Negative
Viable hemolytic streptococcus (In-house)	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.

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