

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Hyaluronic acid

INCI Name: Sodium Hyaluronate

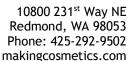
CAS Number: 9067-32-7

Lot Number: Not available (data may vary slightly with different lots or batches)

Re-test Date: 24 months from production date

Analytical Tests	Specifications	Results
Appearance	White or almost white granule or	White powder
(Sensual Test)	powder	
Impurity	No visible exogenous	Pass
(Sensual Test)		
Appearance of Solution	Clear and the absorbance is NMT	Clear, A _{600nm=} 0.001
(Eur 9.0)	0.01 at 600nm	
Clucuronic acid	≥43.5%	47.4%
(QB/T 4576)		
Sodium Hyaluronate	≥90.0%	97.30%
(QB/T 4576)		
Nucleic Acids	The absorbance is NMT 0.05 at	0.013
(Eur 9.0)	260nm	
pH (0.5% aqueous solution @	5.0 - 8.5	6.90
25°C)		
(Eur 9.0)		
Molecular Weight	0.80 - 1.50 x 10 ⁶ Daltons	1.10 X 10 ⁶ Daltons
(QB/T 4576)		
Intrinsic Viscosity	Measure Value	18.54DI/g
(QB/T 4416)		
Protein	≤0.1%(on the dried substance)	<lod(0.03%)< td=""></lod(0.03%)<>
(CP)		

<u>Disclaimer</u>: 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 suitableness & completeness of such information for his own particular use.





Loss on Drying	≤10%	7.8%
(GB 5009.3)		
Residue on Ignition	≤20%	≤20%
(CP)		
Chloride	≤0.5%	≤0.5%
(Eur 9.0)		
Iron	≤80 ppm(on the dried substance)	<80 ppm
(Eur 9.0)		
Heavy Metal	≤20 ppm	≤20 ppm
(QB/T 4576)		
Lead	≤10.0 mg/kg	≤10.0 mg/kg
(GB 5009.12)		
Arsenic	≤2.0 mg/kg	≤2.0 mg/kg
(GB 5009.11)		
Bacteria Counts	≤100 CFU/g	Pass
(QB/T 4416)		
Molds & Yeasts	≤100 CFU/g	Pass
(QB/T 4416)		
Staphylococcus aureus	Negative/25g	Pass
(QB/T 4416)		
Salmonella	Negative/25g	Pass
(GB 4789.4)		
Coliform bacteria	Negative/g	Pass
(CP)		

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.

<u>Disclaimer</u>: 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 suitableness & completeness of such information for his own particular use.