

Certificate of Analysis

Name	Hyaluronic Acid	Grade	Eye Drops Grade
Origin	Fermentation	Test Method	EP10.0
Lot No.	E202105101	Report Date	2021/05/11
MFG Date	2021/05/10	EXP Date	2023/5/09

Physical & Chemical Test

	Test Items	Specification	Results
1	Appearance	White or almost white powder	Complies
		or fibrous aggregate	
2	Identification		
	A. Infrared absorption	The IR spectrum of the sample	Complies
		exhibits maxima at the same	
		wavelength as that of Ph. Eur.	
		Reference spectrum of	
		hyaluronic acid	
	B. Reaction of sodium	Positive	Positive
3	Appearance of solution	Clear and the absorbance is	Clear, A ₆₀₀
		NMT 0.01 at 600 nm	nm=0.001
4	Ph	5.0~8.5	5.7
5	Intrinsic viscosity	Actual value	2.475 m ³ /kg

Purity Test

6	Nucleic acids	The absorbance is NMT 0.05 at 260 nm	0.01
7	Protein	≤0.1%	0.088%
8	Chlorides	≤0.5%	<0.5%
9	Loss on drying	≤20%	8.47%
10	Iron	≤80ppm	<80ppm
11	Residual solvents(Ethanol)	≤5000ppm	112ppm
12	Assay	95.0%-105.0%	96.69%

Bacterial Endotoxins Test

3 Bacterial endotoxins	≤0.5IU/g	<0.5IU/g
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Microbiological Test

14	Total bacterial count	≤100CFU/g	<20CFU/g
15	Yeasts & mold	≤20CFU/g	<20CFU/g
16	E. coli	Negative	Negative
17	Staph	Negative	Negative
18	Pseudomonas aeruginosa	Negative	Negative

Conclusion: The results meet the requirements of the specifications.

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