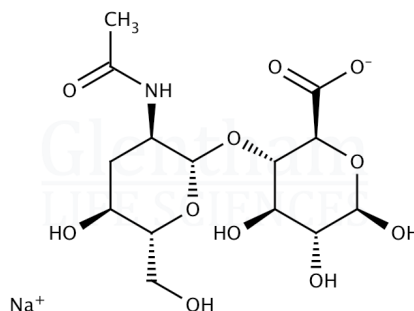


Certificate of Analysis

Product Name Hyaluronic acid sodium salt, m.w.
1.75MDa, Ph. Eur. grade, low endotoxin
Glentham Code GC2788
CAS Number 9067-32-7
Batch Number 895PZF

Molecular Weight 1,750,000
Molecular Formula $(C_{14}H_{20}NNaO_{11})_n$
Storage Temp. -20°C



Property	Specification	Batch 895PZF
Physical Description	White to almost white powder, hygroscopic	Conforms
Identification	A, B according to Ph. Eur.	Conforms
Appearance of Solution	A600nm: ≤ 0.01	Conforms
pH (5% in water)	5.0 - 8.5	6.5
Intrinsic Viscosity	To pass Ph. Eur. test	Conforms
Nucleic Acids	A260nm: ≤ 0.5	Conforms
Protein	≤ 0.05%	0.008%
Chlorides	≤ 0.5%	Conforms
Iron (Fe)	≤ 80ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Residue on Ignition	≤ 20.0%	Conforms
Bacteria Count	≤ 100CFU/g	≤ 10CFU/g
Yeast and Mould	≤ 10CFU/g	≤ 10CFU/g
Staphylococcus aureus	Negative	Negative
Pseudomonas aeruginosa	Negative	Negative
Hemolysis	Negative	Negative
Hemolytical Streptococci	Negative	Negative
Endotoxins	≤ 0.05EU/mg	≤ 0.05EU/mg
Loss on Drying	≤ 10.0%	7.0%
Glucuronic acid	≥ 46.0%	47.7%
Average Molecular Weight	1.55 - 1.95 MDa	1.66MDa
Assay	95.0 - 105.0 % (dried basis)	98.7%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms to Ph. Eur.

Specification Version v1.1
Manufacture Date 2022-06-24
Re-Test Date 2027-07-03

Certificate of Analysis

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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