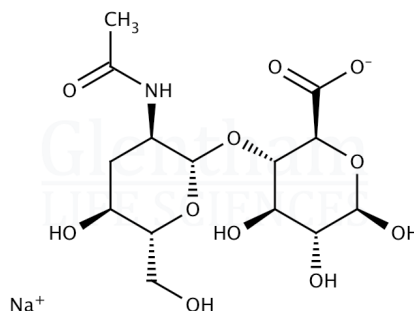


## Certificate of Analysis

Product Name	Hyaluronic acid sodium salt, m.w. 1.5MDa, Ph. Eur. grade
Glentham Code	GE0114
CAS Number	9067-32-7
MDL Number	MFCD00131348
Batch Number	142VKV
Molecular Weight	~1,500,000
Molecular Formula	$(C_{14}H_{20}NNaO_{11})_n$
Storage Temp.	-20°C



Property	Specification	Batch 142VKV
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 (0.5% in water)	5.0 - 8.5	6.60
Intrinsic Viscosity	To pass Ph. Eur. test	Conforms
Sulfated Glycosaminoglycans	≤ 1.0%	Conforms
Nucleic Acids	A260nm: ≤ 0.5	Conforms
Protein	≤ 0.05%	0.01%
Chlorides	≤ 0.5%	0.3%
Iron (Fe)	≤ 80ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Arsenic (As)	≤ 2ppm	Conforms
Residue on Ignition	≤ 20.0%	12.4%
Bacteria Count	≤ 100CFU/g	5CFU/g
Yeast and Mould	≤ 10CFU/g	≤ 10CFU/g
Staphylococcus aureus	Negative	Conforms
Pseudomonas aeruginosa	Negative	Conforms
Hemolysis	Negative	Conforms
Hemolytical Streptococci	Negative	Conforms
Endotoxins	≤ 0.5EU/mg	Conforms
Loss on Drying	≤ 10.0%	6.4%
Glucuronic acid	≥ 46.0%	47.3%
Assay	95.0 - 105.0 % (dried basis)	97.8%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms to Ph. Eur.

Specification Version	v1.0
Manufacture Date	2016-11-21
Re-Test Date	2025-12-21

## 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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