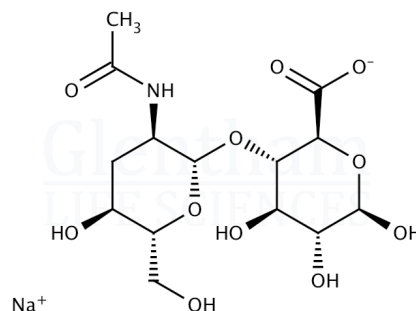


Certificate of Analysis

Product Name	Hyaluronic acid sodium salt, m.w. 50,000 - 100,000
Glenthams Code	GC0005
CAS Number	9067-32-7
MDL Number	MFCD00131348
Batch Number	298KWC
Molecular Weight	50,000 - 100,000
Molecular Formula	$(C_{14}H_{21}NaNO_{11})_n$
Storage Temp.	-20°C



Property	Specification	Batch 298KWC
Physical Description	White powder	White powder
Clarity of Solution	≥ 99.0% (0.5% solution)	Conforms
pH	5.0 - 8.5	6.9
Protein	≤ 0.1%	Conforms
Loss on Drying	≤ 10.0%	6.7%
Residue on Ignition	≤ 20.0%	16.5%
Chlorides	≤ 0.5%	Conforms
Iron (Fe)	≤ 80ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Arsenic	≤ 2ppm	Conforms
Bacteria Count	≤ 100CFU/g	Conforms
Yeast & Mould	≤ 100CFU/g	≤ 50CFU/g
Staphylococcus aureus	Negative	Conforms
Pseudomonas aeruginosa	Negative	Conforms
Haemolytic Streptococci	Negative	Conforms
Glucuronic acid	≥ 46.0%	47.3%
Assay	≥ 95.0%	97.8%

Specification Version	v1.0
Manufacture Date	2024-11-23
Re-Test Date	2033-12-02

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

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