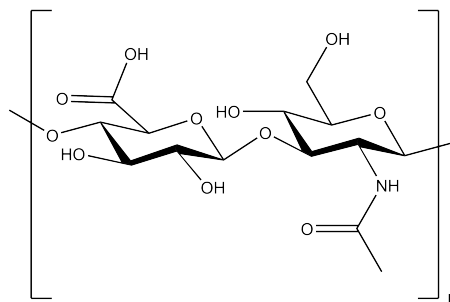


Certificate of Analysis

Product Name	Hyaluronic acid
Glentham Code	GK1476
CAS Number	9004-61-9
EINECS	232-678-0
MDL Number	MFCD00131348
PubChem SID	310274713
Batch Number	692SYU
Molecular Weight	approx. 3,000 - 500,000 (avg.)
Molecular Formula	$(C_{14}H_{21}NO_{11})_n$
Storage Temp.	-20°C



Property	Specification	Batch 692SYU
Physical Description	White to off-white powder	White powder
Assay	≥ 80.0% (Hyaluronic acid)	97.5%
Glucuronic acid	≥ 45.0%	49.9%
pH	2.5 - 3.0	2.8
Protein	≤ 0.1%	0.02%
Loss on Drying	≤ 10.0%	4.0%
Residue on Ignition	≤ 5.0%	4.36%
Chlorides	≤ 0.5%	Conforms
Heavy Metals	≤ 10ppm	≤ 10ppm
Arsenic (As)	≤ 2ppm	≤ 2ppm
Total Plate Count	≤ 100CFU/g	Conforms
Total Mould / Yeast Count	≤ 10CFU/g	Conforms
Staphylococcus aureus	Negative	Conforms
Pseudomonas aeruginosa	Negative	Conforms
Hemolysis	Negative	Conforms
Haemolytic Streptococci	Negative	Conforms

Specification Version	v1.1
Manufacture Date	2021-04-05
Re-Test Date	2028-04-01

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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