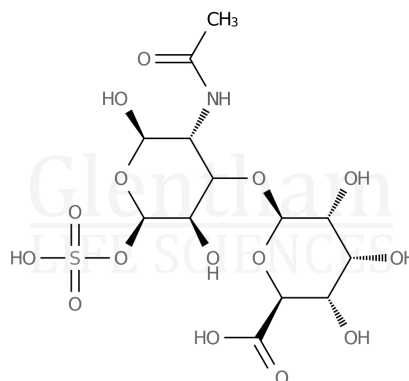


Certificate of Analysis

Product Name	Chondroitin sulfate, from bovine origin, USP grade
Glentham Code	GC3554
CAS Number	9007-28-7
EINECS	232-696-9
MDL Number	MFCD00146419
Batch Number	760DGZ

Molecular Weight	463.37
Molecular Formula	$C_{13}H_{21}NO_{15}S$
Storage Temp.	+20°C



Property	Specification	Batch 760DGZ
Physical Description	White to off-white powder	Conforms
Identification	A, B according to USP	Conforms
Clarity of Solution	≤ 0.35 (5% in water, at 420nm)	Conforms
pH (1% in water)	5.5 - 7.0	6.6
Specific Optical Rotation	-20.0 - -30.0 °	-22.4°
Loss on Drying	≤ 10.0% (105°C, 4h)	9.8%
Residue on Ignition	20.0 - 30.0 %	24.5%
Total Plate Count	≤ 1000CFU/g	Conforms
E. Coli	Negative	Conforms
Salmonella	Negative	Conforms
Chloride	≤ 0.50%	Conforms
Sulphate	≤ 0.24%	Conforms
Heavy Metals	≤ 20ppm	≤ 10ppm
Protein	≤ 6.0% (dried basis)	4.10%
Assay	90.0 - 100.5 % (dried basis)	90.80%
Pharmacopoeia Specification(s)	USP	Conforms to USP38

Specification Version	v1.0
Manufacture Date	2017-08-24
Re-Test Date	2027-11-10

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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