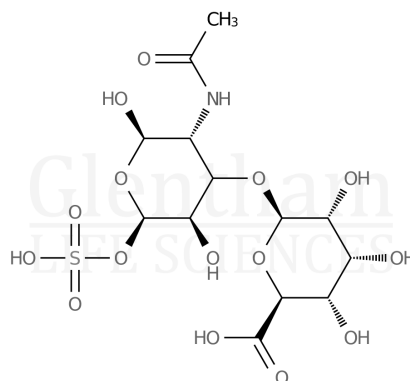


## Product Specification

Product Name	Chondroitin sulfate, from bovine origin, USP grade
Glentham Code	GC3554
CAS Number	9007-28-7
EINECS	232-696-9
MDL Number	MFCD00146419
Molecular Weight	463.37
Molecular Formula	$C_{13}H_{21}NO_{15}S$
Storage Temp.	+20°C



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

Specification Version	- v1.0
Date Created	- 2016-03-30

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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