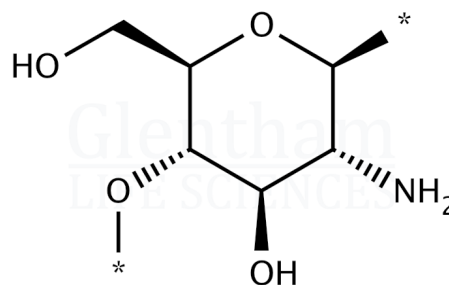


Certificate of Analysis

Product Name	Chitosan (5 cps); ultra low molecular weight
Glentham Code	GP1318
CAS Number	9012-76-4
EINECS	618-480-0
MDL Number	MFCD00161512
Batch Number	029EMB
Molecular Weight	20,000 (avg.)
Molecular Formula	$[C_6H_{11}NO_4]_n$
Storage Temp.	+20°C



Property	Specification	Batch 029EMB
Physical Description	White to light-tan powder	Light-tan powder
Degree of Deacetylation	≥ 90.0%	92.8%
Sulphated Ash	≤ 1.0%	0.1%
Viscosity (1% in 1% AcOH, 20°C)	≤ 5cps	2.2cps
Water	≤ 8.0%	6.6%
Solubility (in acetic acid)	≥ 99%	Conforms
pH (1% in water, 20°C)	6.0 - 8.0	7.0
Arsenic (As)	≤ 1ppm	< 1ppm
Lead (Pb)	≤ 0.5ppm	< 0.5ppm
Mercury (Hg)	≤ 0.1ppm	< 0.1ppm
Cadmium (Cd)	≤ 1ppm	< 1ppm
Particle Size	≤ 100mesh	< 100mesh
Yeast and Mould	≤ 100CFU/g	< 100CFU/g
Total Plate Count	≤ 1000CFU/g	< 1000CFU/g

Specification Version	v1.1
Manufacture Date	2023-09-29
Re-Test Date	2029-10-05

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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