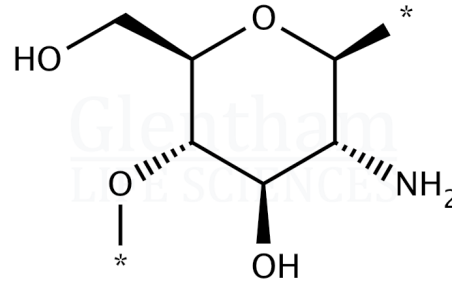


Certificate of Analysis

Product Name	Chitosan (1000 - 2000 cps); high molecular weight
Glentham Code	GP5053
CAS Number	9012-76-4
EINECS	618-480-0
MDL Number	MFCD00161512
Batch Number	495GFT
Molecular Weight	1,500,000 (avg.)
Molecular Formula	$[C_6H_{11}NO_4]_n$
Storage Temp.	+20°C



Property	Specification	Batch 495GFT
Physical Description	White to light-tan, or light-yellow powder	Off-white powder
Degree of Deacetylation	≥ 90.0%	93.3%
Ash	≤ 1.0%	0.4%
Viscosity	1000 - 2000 cps (1% in 1% acetic acid, 20°C)	1734cps
Water	≤ 8.0%	4.8%
Solubility (in acetic acid)	≥ 99%	Conforms
pH	6.0 - 8.0 (1% in 1% acetic acid, 20°C)	8.0
Arsenic (As)	≤ 1ppm	Conforms
Lead (Pb)	≤ 0.5ppm	Conforms
Mercury (Hg)	≤ 0.2ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Particle Size	≤ 100 mesh	Conforms
Microbiological Counts	E. coli, S. Aureus, Coliforms: ≤ 3MPN/g (each)	Conforms
	Salmonella spp.: Not detected in 25g	Conforms
Total Yeast and Mould Count	≤ 100CFU/g	Conforms
Total Plate Count	≤ 1000CFU/g	Conforms

Specification Version	v1.1
Manufacture Date	2023-06-29
Re-Test Date	2029-05-23

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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