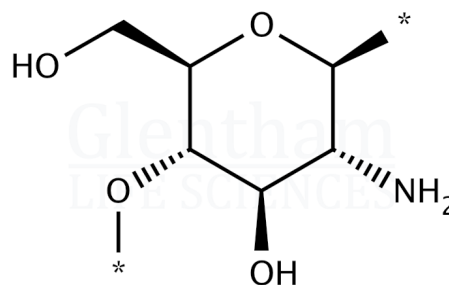


Certificate of Analysis

Product Name	Chitosan (2000 - 3500 cps); very high molecular weight
Glentham Code	GP8689
CAS Number	9012-76-4
EINECS	618-480-0
MDL Number	MFCD00161512
Batch Number	688XJQ
Molecular Weight	1,800,000 (avg.)
Molecular Formula	$[C_6H_{11}NO_4]_n$
Storage Temp.	+20°C



Property	Specification	Batch 688XJQ
Physical Description	White to light-tan powder	Light-tan powder
Degree of Deacetylation	≥ 90.0%	93.16%
Ash	≤ 1.0%	0.56%
Viscosity	2000 - 3500 cps (1% in 1% acetic acid, 20°C)	2184cps
Water	≤ 8.0%	4.25%
Solubility (in acetic acid)	≥ 99%	Conforms
pH	6.0 - 8.0 (1% in 1% acetic acid, 20°C)	8.0
Arsenic (As)	≤ 1mg/kg	Conforms
Lead (Pb)	≤ 0.5mg/kg	Conforms
Mercury (Hg)	≤ 0.1mg/kg	Conforms
Cadmium (Cd)	≤ 1mg/kg	Conforms
Particle Size	≤ 100 mesh	Conforms
Microbiological Counts	E. coli, S. Aureus, Coliforms: ≤ 3MPN/g (each)	Conforms
	Salmonella spp.: Not detected in 25g	Conforms
	Yeast and Moulds: ≤ 100 CFU/g	Conforms
	Total Plate Count: ≤ 1000 CFU/g	Conforms

Specification Version	v1.1
Manufacture Date	2021-09-15
Re-Test Date	2029-08-13

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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