

## 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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