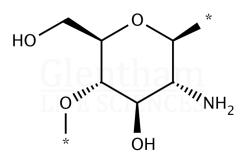


Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

t: +44 (0) 1225 667 798 f: +44 (0) 2033 978 909 e: info@glentham.com w: www.glentham.com

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.



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	2) 2184cps
Water	≤ 8.0%	4.25%
Solubility (in acetic acid)	≥ 99%	Conforms
рН	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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