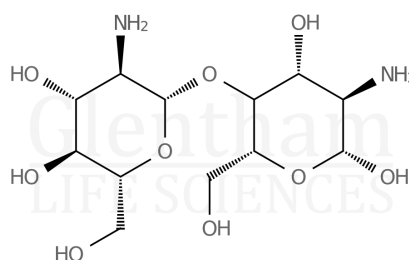


## Certificate of Analysis

Product Name	Chitosan oligosaccharide
Glenthams Code	GU0761
CAS Number	148411-57-8
MDL Number	MFCD00161512
Batch Number	632QYD

Molecular Weight	≤ 5,000 (avg.)
Molecular Formula	-
Storage Temp.	+20°C



Property	Specification	Batch 632QYD
Physical Description	Off-white to light-yellow or tan powder	Tan powder
Solubility (5% in water)	Clear, yellow-brown solution	Conforms
pH (1% in water)	4.0 - 6.5	5.5
Degree of Deacetylation	≥ 72.0%	89.77%
Water	≤ 8.0%	6.29%
Molecular Weight	≤ 5000 (average)	Conforms
Arsenic (As)	≤ 0.5ppm	Conforms
Lead (Pb)	≤ 0.5ppm	Conforms
Mercury (Hg)	≤ 0.2ppm	Conforms
Cadmium (Cd)	≤ 0.2ppm	Conforms
Particle Size	≤ 100 mesh	Conforms
E. Coli	≤ 3MPN/g	Conforms
Salmonella	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	2020-11-19
Re-Test Date	2028-05-19

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glenthams.com](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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