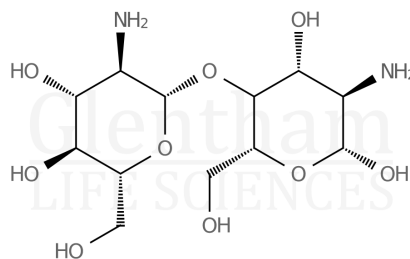


Certificate of Analysis

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

Molecular Weight $\leq 5,000$ (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	$\geq 72.0\%$	89.77%
Water	$\leq 8.0\%$	6.29%
Molecular Weight	≤ 5000 (average)	Conforms
Arsenic (As)	$\leq 0.5\text{ppm}$	Conforms
Lead (Pb)	$\leq 0.5\text{ppm}$	Conforms
Mercury (Hg)	$\leq 0.2\text{ppm}$	Conforms
Cadmium (Cd)	$\leq 0.2\text{ppm}$	Conforms
Particle Size	≤ 100 mesh	Conforms
E. Coli	$\leq 3\text{MPN/g}$	Conforms
Salmonella	Not detected in 25g	Conforms
Total Yeast and Mould Count	$\leq 100\text{CFU/g}$	Conforms
Total Plate Count	$\leq 1000\text{CFU/g}$	Conforms

Specification Version v1.1
Manufacture Date 2020-11-19
Re-Test Date 2028-05-19

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024