

## Certificate of Analysis

Date of Testing: 2022-07-03 17:11:08  
Date of Next Testing: 2026-07-02 17:11:08  
Product Name: **Chitosan**  
CAS Number: 9012-76-4  
Specifications & Purity:  $\geq 95\%$  (deacetylated) ,viscosity 100-200 mPa.s from shrimp shells  
Lot #: F2230213  
SKU #: **C105799**  
Analysis: **100529**

Parameter	Limit Values	Result
Deacetylation value	95-100 (%)	95.80%
Viscosity(1% in 1% acetic acid)	100-200 (mPa·S)	119.00 mPa·S
Ash	0-1.5 (%)	0.47%
Water by Karl Fischer	0-10 (%)	7.13%
(As)Arsenic	0-0.5 (ppm)	0.48 ppm
Total number of bacteria	0-1000 (cfu/g)	988.00 cfu/g
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	98.00 cfu/g
Heavy metals	0-10 (ppm)	8.00 ppm
bulk density	$\geq 0.3$ (g/ml)	0.40 g/ml
Escherichia Coli	none detected	none detected
Salmonella	none detected	none detected
Appearance (C105799)	off-white to yellow to tan powder or chunks	off-white to yellow to tan powder or chunks



John Su  
QA & QC Manager