

## Certificate of Analysis

Date of Testing: 2022-06-02 13:12:39  
Date of Next Testing: 2026-06-01 13:12:39  
Product Name: **Chitosan**  
CAS Number: 9012-76-4  
Specifications & Purity:  $\geq 95\%$  (deacetylated) ,viscosity 100-200 mPa.s from shrimp shells  
Lot #: F2201009  
SKU #: **C105799**  
Analysis: **093607**

Parameter	Limit Values	Result
(As)Arsenic	0-0.5 (ppm)	0.10 ppm
Deacetylation value	95-100 (%)	96.29%
Total number of bacteria	0-1000 (cfu/g)	10.00 cfu/g
Viscosity(1% in 1% acetic acid)	100-200 (mPa·S)	101.00 mPa·S
Ash	0-1.5 (%)	0.18%
bulk density	$\geq 0.3$ (g/ml)	0.50 g/ml
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	3.00 cfu/g
Water by Karl Fischer	0-10 (%)	8.38%
Heavy metals	0-10 (ppm)	2.30 ppm
Appearance (C105799)	off-white to tan powder or chunks	off-white to tan powder or chunks
Escherichia Coli	none detected	none detected
Salmonella	none detected	none detected



John Su  
QA & QC Manager