

Certificate of Analysis

Date of Testing: 2023-11-17 14:36:54
Date of Next Testing: 2027-11-16 14:36:54
Product Name: **Chitosan**
CAS Number: 9012-76-4
Specifications & Purity: $\geq 95\%$ (deacetylated) ,viscosity 100-200 mPa.s from shrimp shells
Lot #: K2309635
SKU #: **C105799**
Version: **0**
Analysis #: **292001**

Parameter	Limit Values	Result
(As)Arsenic	0-0.5 (ppm)	0.35 ppm
Deacetylation value	95-100 (%)	95.20%
Total number of bacteria	0-1000 (cfu/g)	40.00 cfu/g
Ash	0-1.5 (%)	0.34%
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	10.00 cfu/g
Water by Karl Fischer	0-10 (%)	7.83%
Viscosity(1% in 1% acetic acid)	100-200 (mPa·S)	118.00 mPa·S
bulk density	≥ 0.3 (g/ml)	0.31 g/ml
Heavy metals	0-10 (ppm)	8.00 ppm
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