

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-08 15:00:02  
 Date of Next Testing: 2029-05-07 15:00:02  
 Product Name: **Chitosan**  
 CAS Number: 9012-76-4  
 Specifications & Purity:  $\geq 95\%$  (deacetylated) ,viscosity 100-200 mPa.s from shrimp shells  
 Lot #: E2506130  
 SKU #: **C105799**  
 Version: **0**  
 Analysis #: **502028**  
 Storage Temperature: Room temperature

| Parameter                          | Limit Values                                | Result                                      |
|------------------------------------|---------------------------------------------|---------------------------------------------|
| (As)Arsenic                        | 0-0.5 (ppm)                                 | 0.10250 ppm                                 |
| Deacetylation value                | 95-100 (%)                                  | 95.10000 %                                  |
| Total number of bacteria           | 0-1000 (cfu/g)                              | 10.00000 cfu/g                              |
| Ash                                | 0-1.5 (%)                                   | 0.69000 %                                   |
| Total yeasts and molds count(TYMC) | 0-100 (cfu/g)                               | 0.32500 cfu/g                               |
| Water by Karl Fischer              | 0-10 (%)                                    | 8.67000 %                                   |
| Viscosity(1% in 1% acetic acid)    | 100-200 (mPa·S)                             | 154.00000 mPa·S                             |
| bulk density                       | $\geq 0.3$ (g/ml)                           | 0.35000 g/ml                                |
| Heavy metals                       | 0-10 (ppm)                                  | 5.00000 ppm                                 |
| Appearance (C105799)               | off-white to yellow to tan powder or chunks | off-white to yellow to tan powder or chunks |
| Escherichia Coli                   | none detected                               | none detected                               |
| Salmonella                         | none detected                               | none detected                               |



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager