

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-23 14:20:34

Date of Next Testing: 2027-11-23 14:20:34

Product Name: **Carboxymethyl chitosan**

CAS Number: 83512-85-0

Specifications & Purity: Degree of substitution:  $\geq 90\%$

Lot #: K2420562

SKU #: **C304739**

Version: **4**

Analysis #: **433041**

Storage Temperature: Store at 2-8°C, Desiccated

| Parameter                            | Limit Values                        | Result                              |
|--------------------------------------|-------------------------------------|-------------------------------------|
| Loss on drying                       | 0-10 (%)                            | 1.54592 %                           |
| Ash                                  | 10.0-25 (%)                         | 20.67293 %                          |
| Viscosity(1% in 1% water, 20°C)      | < 200 (mPa·S)                       | 13.83000 mPa·S                      |
| Insoluble matter in H <sub>2</sub> O | 0-1 (%)                             | 0.00000 %                           |
| Degree of substitution( total)       | $\geq 90$ (%)                       | 108.30000 %                         |
| Appearance (C304739)                 | white to off-white to yellow powder | white to off-white to yellow powder |
| Infrared spectrum                    | Conforms to Structure               | Conforms to Structure               |



John Su  
QA & QC Manager