

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                     |
|--------------------------|-------------------------------------|
| Date of Testing:         | 2024-01-18 17:05:13                 |
| Date of Next Testing:    | 2028-01-17 17:05:13                 |
| Product Name:            | <b>Carboxymethyl cellulose</b>      |
| CAS Number:              | 9004-32-4                           |
| Specifications & Purity: | M.W. 250000(DS=1.2) ,1500-3100mPa.s |
| Lot #:                   | A2411286                            |
| SKU #                    | <b>C104978</b>                      |
| <b>Analysis:</b>         | <b>184805</b>                       |
| Storage Temperature:     | Argon charged,Desiccated            |

| Parameter                    | Limit Values   | Result   |
|------------------------------|--|--|
| Viscosity(2% Solution,25°C)  | 1500-3100 (cP)   | 2224.00 cP   |
| (As)Arsenic                  | 0-3 (ppm)  | 3.00 ppm   |
| Assay                        | 99.5-100 (%)   | 99.50%   |
| Heavy metals                 | 0-20 (ppm)   | 10.00 ppm  |
| Pb measure                   | 0-10 (ppm)   | 10.00 ppm  |
| Average Molecular Weight     | 240000-260000  | 250000.00  |
| Loss on drying(105°C, 2 hrs) | 0-10 (%)   | 7.30%  |
| Degree of substitution       | 1.15-1.45  | 1.20   |
| pH(1% solution)              | 6.5-8  | 7.70000  |
| Infrared spectrum            | Conforms to Structure  | Conforms to Structure  |
| Appearance (C104978)         | White to light beige to light grey powder or granules or solid | White to light beige to light grey powder or granules or solid |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager