

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-02 11:31:54  
Date of Next Testing: 2026-06-01 11:31:54  
Product Name: **Carboxymethyl cellulose**  
CAS Number: 9004-32-4  
Specifications & Purity: M.W. 250000(DS=1.2) ,1500-3100mPa.s  
Lot #: D2227031  
SKU #: **C104978**  
**Analysis:** **078561**  
Storage Temperature: Argon charged,Desiccated

| Parameter                    | Limit Values                                    | Result  |
|------------------------------|---|---|
| Viscosity(2% Solution,25°C)  | 1500-3100 (cP)                                  | 2560.00 cP                                      |
| (As)Arsenic                  | 0-3 (ppm)                                       | 2.00 ppm  |
| Assay                        | 99.5-100 (%)                                    | 99.70 %   |
| Heavy metals                 | 0-20 (ppm)                                      | 10.00 ppm                                       |
| Pb measure                   | 0-10 (ppm)                                      | 2.00 ppm  |
| Average Molecular Weight     | 240000-260000                                   | 250000.00                                       |
| PH(1% in Water)              | 6.5-8   | 7.50  |
| Loss on drying(105°C, 2 hrs) | 0-10 (%)  | 7.30 %  |
| Degree of substitution       | 1.15-1.45                                       | 1.20  |
| Infrared spectrum            | Conforms to Structure                           | Conforms to Structure                           |
| Appearance (C104978)         | White to light grey powder or granules or solid | White to light grey powder or granules or solid |



John Su  
QA & QC Manager