

Certificate of Analysis

Date of Testing: 2023-07-20 16:33:02

Date of Next Testing: 2027-07-19 16:33:02

Product Name: **Carboxymethyl cellulose**

CAS Number: 9004-32-4

Specifications & Purity: M.W. 90000(DS=0.7) ,50-100mPa.s

Lot #: G2313229

SKU #: **C104983**

Analysis: **044291**

Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|---------------------------|---------------------------------------|---------------------------------------|
| PH | 6.5-8 | 7.50 |
| NaCl | 0-0.25 (%) | 0.21 % |
| Pb measure | 0-10 (ppm) | 6.32 ppm |
| Sodium glycolate | 0-0.4 (%) | 0.35 % |
| Mercury(Hg) | 0-1 (ppm) | 0.00 ppm |
| Loss on drying | 0-10 (%) | 0.00 % |
| (As)Arsenic | 0-3 (ppm) | 0.00 ppm |
| Viscosity(1% in H2O,25°C) | 50-100 (cP) | 50.01 cP |
| Heavy metal (as Pb) | 0-20 (ppm) | 10.94 ppm |
| Assay | 99.5-100 (%) | 99.56 % |
| Cadmium(Cd) | 0-1 (ppm) | 0.00 ppm |
| Degree of substitution | 0.65-0.9 | 0.82 |
| Appearance (C104983) | white to light yellow granular powder | white to light yellow granular powder |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Molecular Weight | Conforms | Conforms |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager