

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-10-22 14:15:05  
Date of Next Testing: 2026-10-21 14:15:05  
Product Name: **Carboxymethyl cellulose**  
CAS Number: 9004-32-4  
Specifications & Purity: M.W. 250000(DS=0.7), 1500-3100mPa.s  
Lot #: J2219378  
SKU #: **C104981**  
Version: **1**  
Analysis #: **117677**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
PH	6.5-8	7.26
Cadmium(Cd)	0-1 (ppm)	0.42 ppm
Pb measure	0-3 (ppm)	2.18 ppm
NaCl	0-0.25 (%)	0.16 %
Heavy metal (as Pb)	0-10 (ppm)	6.14 ppm
Sodium glycolate	0-0.4 (%)	0.37 %
Viscosity(1% in H <sub>2</sub> O, 25°C)	1500-3100 (cP)	2844.00 cP
Mercury(Hg)	0-1 (ppm)	0.54 ppm
Loss on drying	0-10 (%)	6.82 %
(As)Arsenic	0-3 (ppm)	2.17 ppm
Degree of substitution	0.65-0.9	0.83
Assay	99.5-100 (%)	99.60 %
Appearance (C104981)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
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