

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-01 21:16:15  
Date of Next Testing: 2026-06-30 21:16:15  
Product Name: **Carboxymethyl cellulose**  
CAS Number: 9004-32-4  
Specifications & Purity: M.W. 90000(DS=0.7) ,50-100mPa.s  
Lot #: F2228123  
SKU #: **C104983**  
**Analysis: 108641**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
PH	6.5-8	7.50
NaCl	0-0.25 (%)	0.07 %
Pb measure	0-10 (ppm)	3.50 ppm
Sodium glycolate	0-0.4 (%)	0.05 %
Mercury(Hg)	0-1 (ppm)	0.63 ppm
Loss on drying	0-10 (%)	0.00 %
(As)Arsenic	0-3 (ppm)	0.89 ppm
Viscosity(1% in H2O,25°C)	50-100 (cP)	50.01 cP
Heavy metal (as Pb)	0-20 (ppm)	13.59 ppm
Cadmium(Cd)	0-1 (ppm)	0.51 ppm
Degree of substitution	0.65-0.9	0.78
Assay (dry basis)	99.5-100 (%)	99.56000 %
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