

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2021-08-25 15:00:28
Date of Next Testing:	2025-08-24 15:00:28
Product Name:	<b>Carboxymethyl cellulose</b>
CAS Number:	9004-32-4
Specifications & Purity:	M.W. 90000(DS=0.7) ,50-100mPa.s
Lot #:	H2121231
SKU #	<b>C104983</b>
<b>Analysis:</b>	<b>032123</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
PH	6.5-8	6.57
NaCl	0-0.25 (%)	0.01 %
Pb measure	0-10 (ppm)	2.00 ppm
Sodium glycolate	0-0.4 (%)	0.01 %
Mercury(Hg)	0-1 (ppm)	0.02 ppm
Loss on drying	0-10 (%)	0.00 %
(As)Arsenic	0-3 (ppm)	1.80 ppm
Viscosity(1% in H <sub>2</sub> O,25°C)	50-100 (cP)	50.01 cP
Heavy metal (as Pb)	0-20 (ppm)	8.00 ppm
Assay	99.5-100 (%)	99.56 %
Cadmium(Cd)	0-1 (ppm)	0.00 ppm
Degree of substitution	0.65-0.9	0.66
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