

Certificate of Analysis

Date of Testing: 2024-01-18 17:04:42

Date of Next Testing: 2028-01-17 17:04:42

Product Name: **Carboxymethyl cellulose**

CAS Number: 9004-32-4

Specifications & Purity: M.W. 250000(DS=1.2) ,1500-3100mPa.s

Lot #: A2411285

SKU #: **C104978**

Analysis: **184805**

Storage Temperature: Argon charged,Desiccated

Parameter	Limit Values	Result
Viscosity(2% Solution,25°C)	1500-3100 (cP)	2224.00 cP
(As)Arsenic	0-3 (ppm)	3.00 ppm
Assay	99.5-100 (%)	99.50%
Heavy metals	0-20 (ppm)	10.00 ppm
Pb measure	0-10 (ppm)	10.00 ppm
Average Molecular Weight	240000-260000	250000.00
Loss on drying(105°C, 2 hrs)	0-10 (%)	7.30%
Degree of substitution	1.15-1.45	1.20
pH(1% solution)	6.5-8	7.70000
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (C104978)	White to light beige to light grey powder or granules or solid	White to light beige to light grey powder or granules or solid



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager