

Certificate of Analysis

Date of Testing: 2023-07-06 15:36:09

Date of Next Testing: 2025-06-25 15:36:09

Product Name: **Poly(4-styrenesulfonic acid-co-maleic acid) sodium salt**

CAS Number: 68037-40-1

Specifications & Purity: average Mw ~20,000, powder, molar ratio 3:1

Lot #: F2330862

SKU #: **P107092**

Analysis: 189538

Parameter	Limit Values	Result
Average Molecular Weight	19500-20500	20000.00
PH(1%,in Water)	5-9	8.70
Viscosity(25 wt.% in H2O)	28-32 (cP)	29.30 cP
Solid Content	90-100 (%)	95.90%
ICP:Confirms Na and S Component	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (P107092)	yellow to tan powder	yellow to tan powder



John Su
QA & QC Manager