

Certificate of Analysis

Date of Testing: 2024-04-11 11:48:53

Date of Next Testing: 2028-04-10 11:48:53

Product Name: **Polyquaternium - 11**

CAS Number: 53633-54-8

Specifications & Purity: 20 wt. % in H₂O

Lot #: D2403441

SKU # **P101212**

Analysis: 332102

Parameter	Limit Values	Result
PH at 25°C(5% in water)	5.5-8.5	5.76
Solid Content	19-21 (%)	20.21 %
Miscellaneous Assay(Vinylpyrrolidone)	0-1 (%)	0.00000 %
Viscosity(25 °C,neat)	20000-60000 (cP)	24840.00 cP
Appearance (P101212)	Colorless Viscous Liquid , May be Hazy	Colorless Viscous Liquid , May be Hazy
Biological Stain Test	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager