

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2024-10-12 13:39:41

Date of Next Testing: 2027-10-12 13:39:41

Product Name: **Polyquaternium - 11**

CAS Number: 53633-54-8

Specifications & Purity: 20 wt. % in H₂O

Lot #: J2409673

SKU #: **S48038**

Version: **0**

Analysis #: **418966**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
PH at 25°C(5% in water)	5.5-8.5	5.85
Solid Content	19-21 (%)	20.98 %
Viscosity(25 °C,neat)	20000-60000 (cP)	23150.00 cP
Miscellaneous Assay(Vinylpyrrolidone)	0-1 (%)	0.64000 %
Biological Stain Test	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance(S48038)	Colorless Viscous Liquid , May be Hazy	Colorless Viscous Liquid , May be Hazy

Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zhu

