

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-31 10:47:53

Date of Next Testing: 2026-12-31 10:47:53

Product Name: Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)

CAS Number: 9003-11-6

Specifications & Purity: average Mn ~12,600(EO : PO=7 : 3)

Lot #: L2419741

SKU #: P140818

Version: 1

Analysis #: 448290

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.4 (wt%)	0.29 wt%
Cloud point(10% in H2O)	≥100 (°C)	100.00 °C
Melting point	50-62 (°C)	58.00000 °C
Molecular Weight	9840-14600	11811.00
PH(2.5% Aqueous)	5-7.5	6.60
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (P140818)	White Powder or Crystals or Granules or Chunks	White Powder or Crystals or Granules or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager