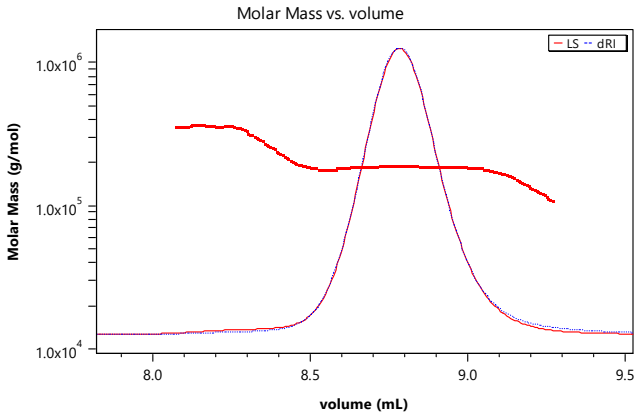
Certificate of Analysis

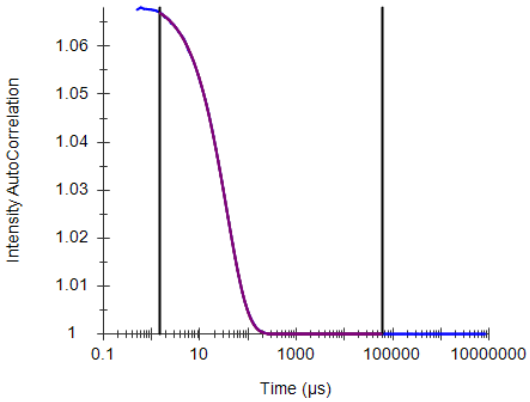
Polystyrene Standard (200 kDa)

Polystyrene in toluene: dn/dc = 0.110 mL/g; $A_2 = 4.4 \times 10^{-4}$ (mol mL)/g²

Wyatt p/n: 900082
Lot Number: J11430013

Manufactured by: Pressure Chemical Company
Expires: 25 Nov 2028
Storage: Room temperature





Standard characterization data by Wyatt MALS and ViscoStar™ detectors following SEC separation (MZ-Gel SDplus™ linear 5 µm, 300 mm x 8.0 mm column):

Solvent and SEC mobile phase were toluene. Solution was prepared at 0.67 mg/mL.

RMS Radius $R_{g,z}$ (monomer) = (16.0 ± 0.0) nm $R_{g,z}$ (entire eluted mass) = (16.2 ± 0.1) nm

Molar Mass (monomer)	M_w = (185 ± 1) kDa	M_w/M_n = 1.00 ± 0.00
Molar Mass (entire eluted mass)	M_w = (184 ± 2) kDa	M_w/M_n = 1.02 ± 0.01
Intrinsic Viscosity (monomer)	$[\eta]_w$ = (73.0 ± 0.3) mL/g	$[\eta]_z$ = (73.0 ± 0.3) mL/g
Intrinsic Viscosity (entire eluted mass)	$[\eta]_w$ = (73.0 ± 1.0) mL/g	$[\eta]_z$ = (74.0 ± 1.4) mL/g

Standard characterization data by Wyatt DynaPro™ NanoStar™ instrument:

Solvent was toluene. Solution was prepared at 0.5 mg/mL.

R_h (Cumulants) = (11.4 ± 0.1) nm R_h (Regularization) = (12.1 ± 0.4) nm

Certification: Sophia Kenrick Date: 25 Nov 2024

Sophia Kenrick
Head of Analytical Sciences

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