



# Certificate of Analysis

## Dextran (40 kDa)

Dextran in water:  $dn/dc = 0.138 \text{ mL/g}$

Solution was prepared at 5 mg/mL for MALS or 10 mg/mL for DLS and filtered through 0.02  $\mu\text{m}$  Anotop® filter.

Wyatt p/n: 900114  
Lot Number: SLBZ3079

Manufactured by: Sigma Aldrich®  
Expires: 3/7/2022  
Storage: Room temperature

Standard characterization data by Wyatt  
MALS detector coupled to Wyatt Calypso®  
pump system:

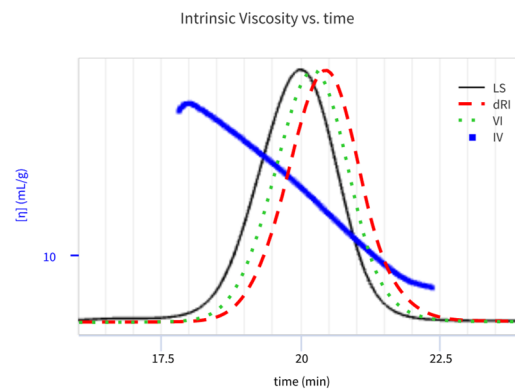
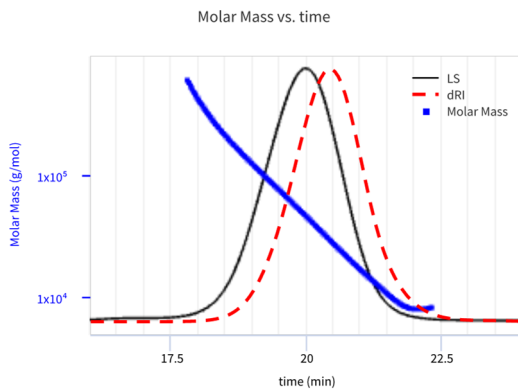
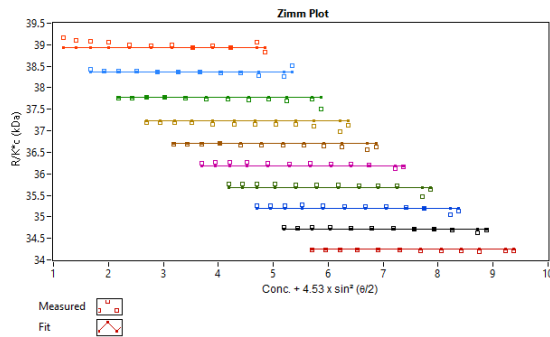
$$M_w \text{ (batch)} = (38.9 \pm 0.5) \text{ kDa}$$

$$A_2 = (4.0 \pm 0.2) \times 10^{-4} \text{ (mol mL)/g}^2$$

Standard characterization data by Wyatt  
DynaPro® Plate Reader

$$R_h \text{ (Cumulants)} = (4.7 \pm 0.1) \text{ nm}$$

$$R_h \text{ (Regularization)} = (5.6 \pm 0.1) \text{ nm}$$



Standard characterization data by Wyatt MALS detector following SEC separation  
(Shodex LB-806M and LB-G 6B columns):

Solvent and SEC mobile phase were 100 mM NaNO<sub>3</sub> at 0.5 mL/min.

$$M_n = (24.5 \pm 0.1) \text{ kDa}$$

$$M_w = (38.0 \pm 0.1) \text{ kDa}$$

$$M_w/M_n = 1.55 \pm 0.01$$

$$\text{Intrinsic viscosity}$$

$$[\eta]_w = (16.7 \pm 0.1) \text{ mL/g}$$

$$[\eta]_z = (21.4 \pm 0.5) \text{ mL/g}$$

Certification: Sophia Kenrick  
Sophia Kenrick  
Director of Analytical Services

Date: 3/6/2020