

# Certificate of Analysis

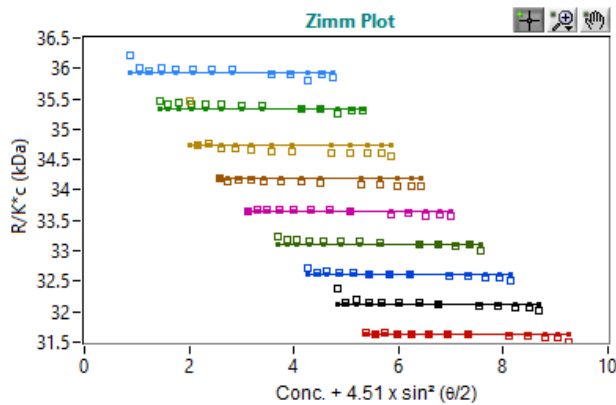
## Dextran (40 kDa)

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: SLCF0483

Manufactured by: Sigma Aldrich®  
Expires: 27 Jan 2023  
Storage: Room temperature



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

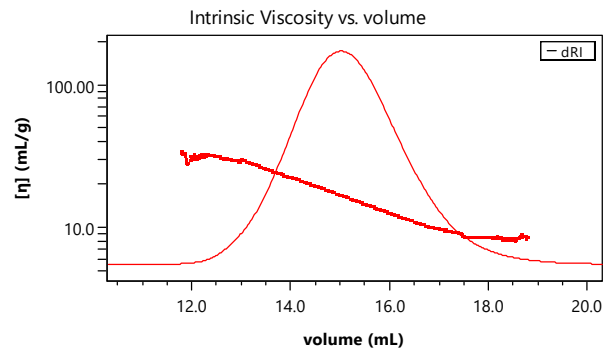
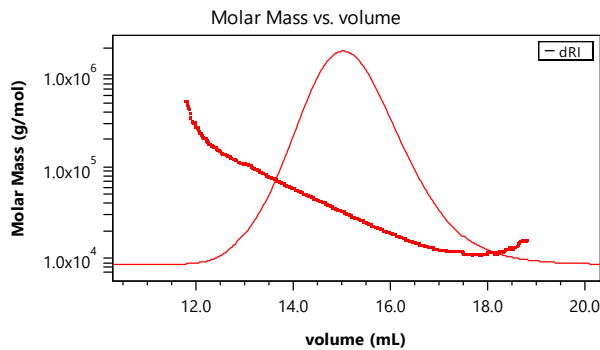
$$M_w \text{ (batch)} = (36.9 \pm 0.3) \text{ kDa}$$

$$A_2 = (4.3 \pm 0.1) \times 10^{-4} \text{ (mol mL)/g}^2$$

Standard characterization data by Wyatt DynaPro® Plate Reader

$$R_h \text{ (Cumulants)} = (4.8 \pm 0.1) \text{ nm}$$

$$R_h \text{ (Regularization)} = (5.8 \pm 0.1) \text{ nm}$$



Standard characterization data by Wyatt MALS detector following SEC separation (Shodex LB-805, LB-806, and SB-G columns):

Solvent and SEC mobile phase were 100 mM NaNO<sub>3</sub> at 1 mL/min.

$$M_n = (26.1 \pm 0.2) \text{ kDa}$$

$$M_w = (36.6 \pm 0.2) \text{ kDa}$$

$$M_w/M_n = 1.41 \pm 0.01$$

Intrinsic viscosity

$$[\eta]_w = (16.6 \pm 0.1) \text{ mL/g}$$

$$[\eta]_z = (20.3 \pm 0.3) \text{ mL/g}$$

Certification: \_\_\_\_\_

*Sophia Kenrick*

Date: \_\_\_\_\_ 27 Jan 2021

Sophia Kenrick  
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