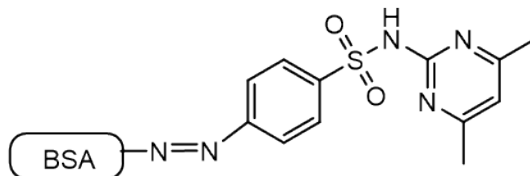


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: Sulfamethazine-BSA HL
- (b) Molecular Weight: 75 KDa
- (c) Chemical Structure:



- (d) Appearance: Orange lyophilized powder in a microcentrifuge tube .
- (e) Amount: Each tube contains 1 mg of product.
- (f) Reconstitution: Dissolve in 88 μ L of deionized water plus 162 μ L of 1xPBS to achieve 4 mg/mL in 1xPBS buffer containing no preservative.

SKU Code and Lot Number:

- (a) SKU Code: CM52136-1MG, CM52136-5MG
- (b) Lot Number: S417-50.S10.0817B

Purity, MS, and Other Information:

- (a) Purity: $\geq 99\%$ of conjugates (contain some aggregated forms)
- (b) MS Data: 75,156 Da (MALDI-TOF MS)
- (c) Other Information: A pool of heterogeneous sulfamethazine-BSA conjugates (the site of sulfamethazine labeling on the BSA may vary for individual components). Average sulfamethazine per BSA: ~ 30 by MS.

Intended use: For research and development use only.

Solubility: Soluble in water.

Hazard Information: See SDS.

Shelf life, Storage/Stability as Supplied: The conjugate is fairly stable as solid at ambient temperature. Recommended long-term storage is at -20°C or preferably in a -80°C freezer. After reconstitution, the stock solution could be used up to 1 week if stored at $2-8^{\circ}\text{C}$.

Expiration Date: 1 year after receiving if stored at -20°C or below.

Certified by: Yumei Huang

Certifying Officer: Yumei Huang

Date Appendix: HPLC and MS Data

CoA_CellMosaic (T075.3)
Sulfamethazine-BSA/S417-50.S10.0817B

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Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, blue trace) and BSA-Sulfamethazine in PBS buffer (after labeling, red trace). Average Delt Rt: ~0.74 min.

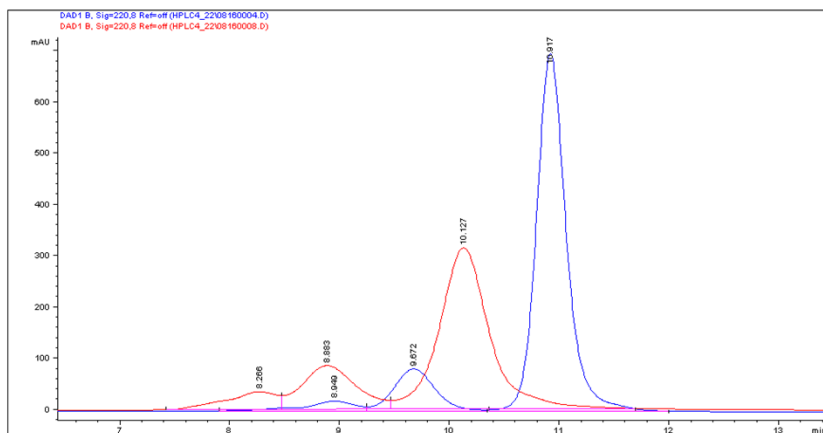
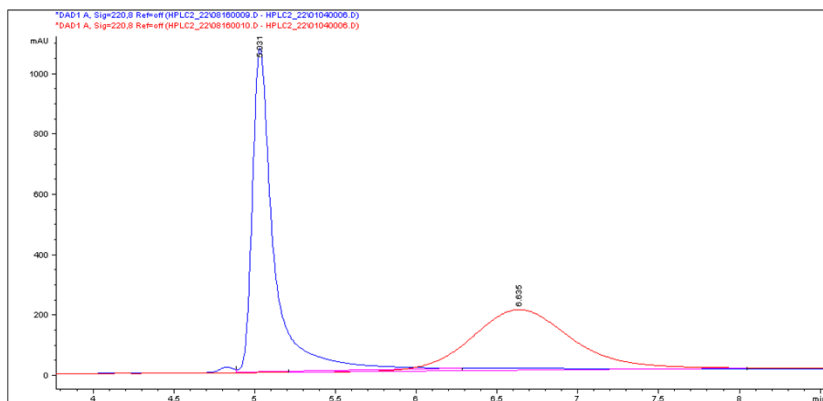
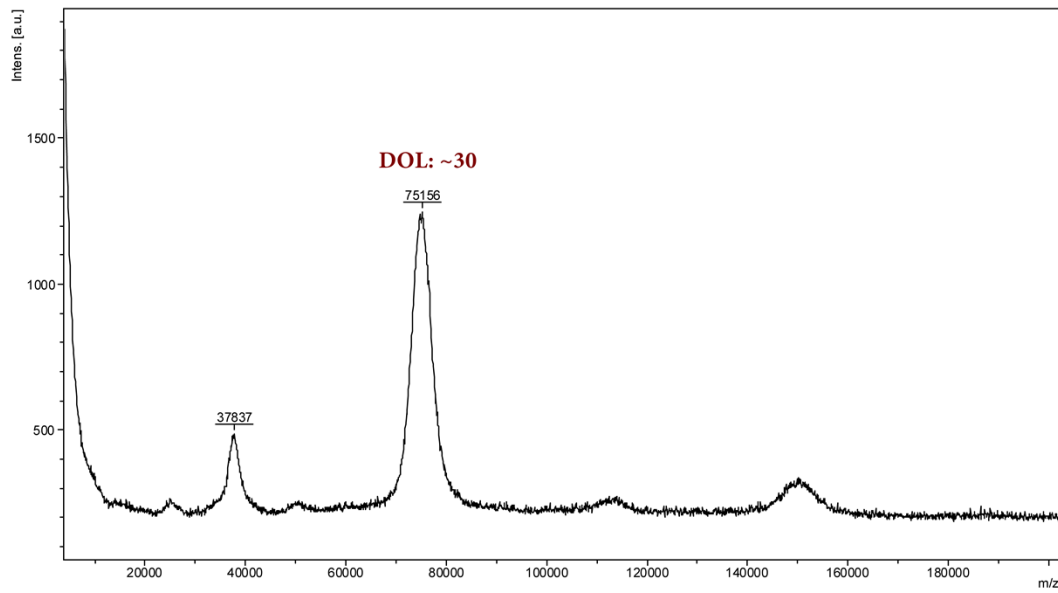


Figure 2. Overlay reversed phase C4 HPLC spectrum of BSA (before labeling, blue trace) and BSA-Sulfamethazine in PBS buffer (after labeling, red trace). Delt Rt: 1.603 min



MALDI-TOF MS Data of Sulfamethazine-BSA Conjugate



Bruker Daltonics flexAnalysis

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