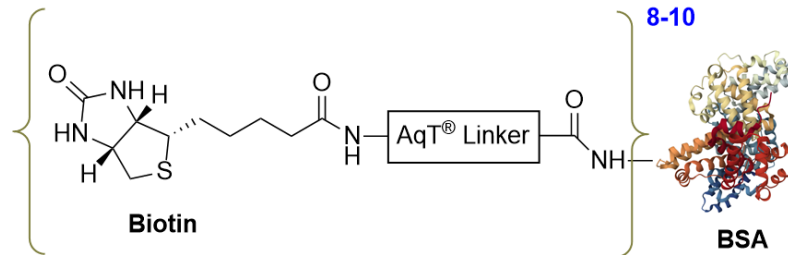


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: AqT® Biotinylated BSA
- (b) Chemical Structure:



- (c) Molecular Weight: ~71 KDa
- (d) Appearance: colorless to white lyophilized powder.
- (e) Amount: each tube contains 1 mg of AqT® Biotinylated BSA.
- (f) Reconstitution: dissolve in 80.84 μ L of deionized water to achieve 12.37 mg/mL in 1xPBS buffer containing sugar-based stabilizer (no preservative).

SKU Code and Batch Number:

- (a) SKU Code: CM86159-1MG
- (b) Lot Number: S658.S13.0423F

Purity, UV/Vis, MS, and Loading:

- (a) HPLC analysis: $\geq 99\%$ of conjugates, free of any unreacted AqT® Biotin
- (b) Biotin Loading: 8.6 by Biotin Assay and 9.0 by MALDI-TOF MS

Intended Use: For research and development use only.

Hazard Information: See SDS.

Shelf life, Storage/Stability: 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.

Data Appendix: Size exclusion and C4 HPLC, MALDI-TOF MS Data.

Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, blue trace) and AqT[®] Biotinylated BSA in PBS buffer (after labeling, red trace).

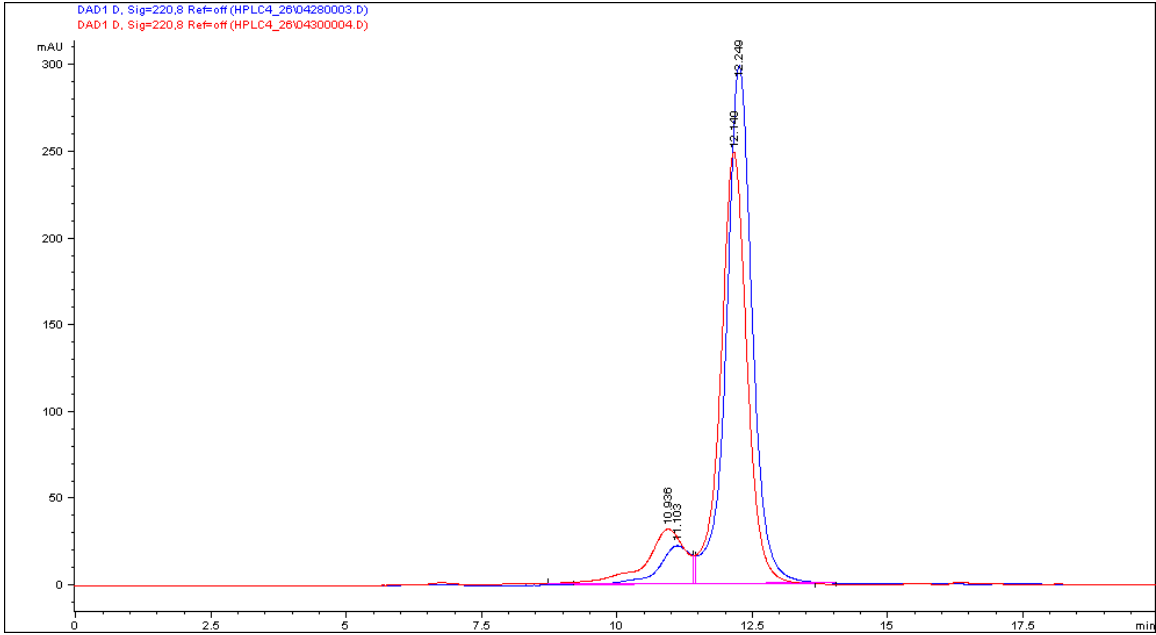


Figure 2. Overlay C4 HPLC spectrum of BSA (before labeling, blue trace) and AqT[®] Biotinylated BSA in PBS buffer (after labeling, red trace).

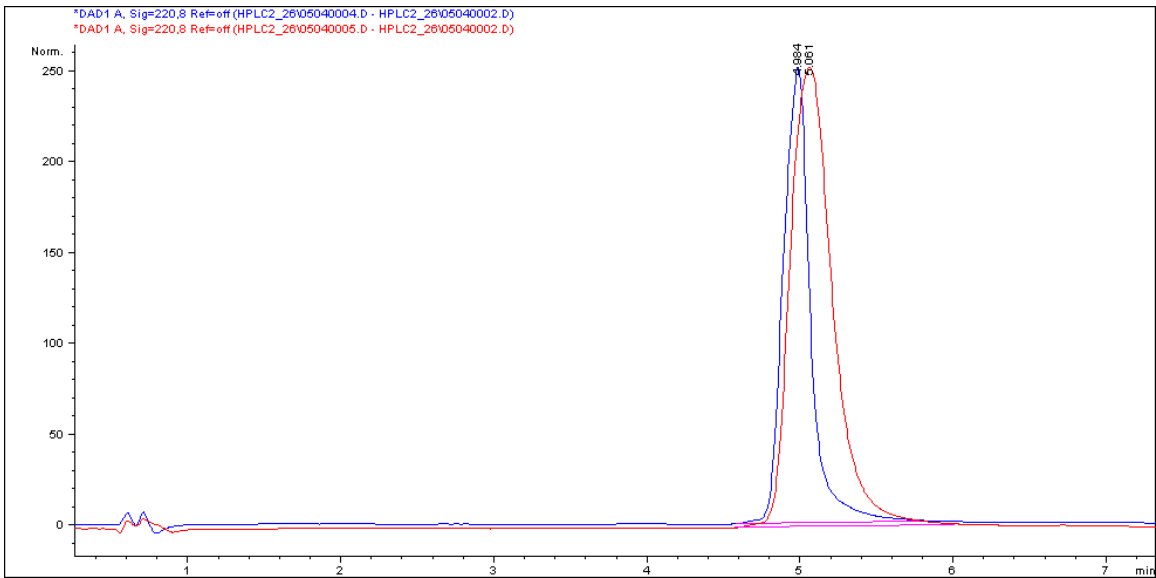


Figure 3. MALDI TOF MS Analysis of AqT® Biotinylated BSA conjugate and BSA.

