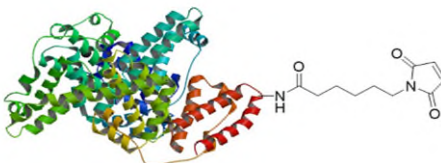

Certificate of Analysis

Description of the Material:

- (a) Chemical Name: Maleimide Activated BSA LL
- (b) Chemical Structure:



- (c) Molecular Weight: ~67 KDa
- (d) Appearance: White to off-white preservative-free lyophilized powder.
- (e) Amount: Each tube contains 2 mg of Maleimide Activated BSA LL
- (f) Reconstitution: Dissolve in 2 mL of deionized water to obtain 1 mg/mL solution in phosphate buffered saline, pH 6.

SKU Code and Batch Number:

- (a) SKU Code: CM52145-1 x 2MG or CM52145-3 x 2MG
- (b) Lot Number: S545.S8.0709D

Purity, UV/Vis, and Loading:

- (a) HPLC analysis: $\geq 99\%$ of conjugates, (unlabeled BSA is prepared using heat shock fractionation. It is protease free, and globulin free. pH 7.0, $\geq 98\%$ pure)
- (b) Active Maleimide groups: ~5 per BSA by maleimide assay.

Intended Use: For research and development use only.

Hazard Information: Non hazardous. See SDS.

Shelf life, Storage/Stability The product is fairly stable as solid at ambient temperature. Recommended long-term storage is at $-20\text{ }^{\circ}\text{C}$ or preferably in a $-80\text{ }^{\circ}\text{C}$ freezer. The reconstituted lyophilized tubes should be used immediately following reconstitution with sterile water. If not used immediately, the reconstituted tubes can be stored for up to 4 hours in a $2\text{--}8\text{ }^{\circ}\text{C}$ refrigerator.

Expiration date: 1 year after receiving if stored at $-20\text{ }^{\circ}\text{C}$ or below.

Data Appendix: Size exclusion, C4 HPLC data.

Figure 1. Size exclusion HPLC profile of BSA(beforelabelling, left) and purified conjugate Maleimide Activated BSA LL (right)

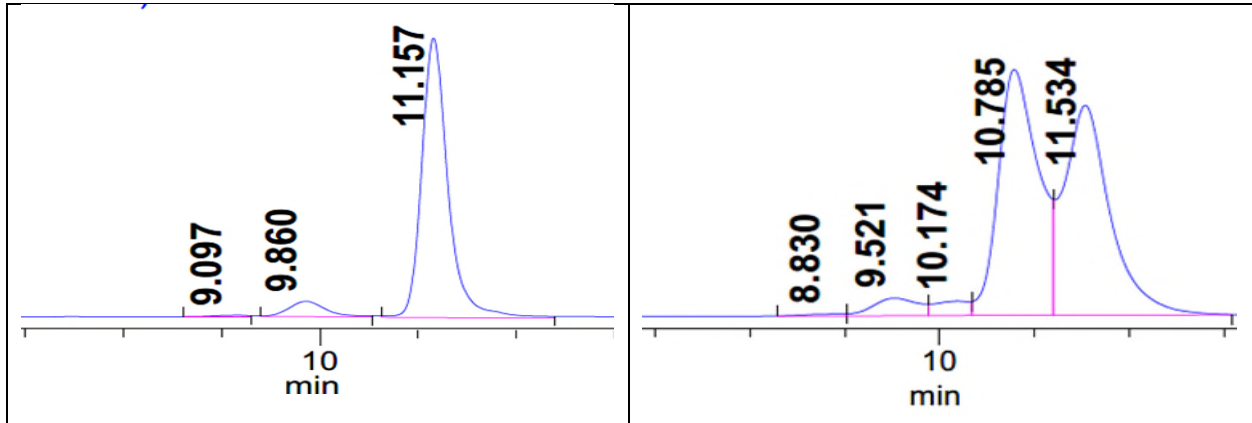


Figure 2. Overlay of C4 Reversed phase analysis of BSA (before labeling, blue trace) and Maleimide Activated BSA LL (after labeling, red trace showing absorbance at 220 nm).

