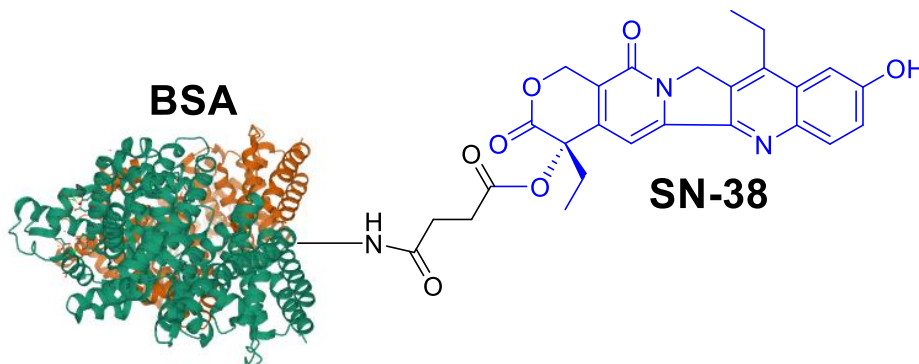


## Certificate of Analysis

### Description of the Material:

- (a) Chemical Name: BSA-SN38 Conjugate
- (b) Chemical Structure:



- (c) Molecular Weight: 68,134 Da
- (d) Appearance: White to off-white preservative-free lyophilized powder
- (e) Amount: Each tube contains 1 mg of BSA-SN38
- (f) Reconstitution: Dissolve in 300  $\mu$ L of deionized water to obtain 3.33 mg/mL solution in Sodium citrate buffer, pH 6.5

### SKU Code and Batch Number:

- (a) SKU Code: CM52149-1MG or CM52149-5MG
- (b) Lot Number: S585.S8.0311E

### Purity, UV/Vis, and Loading:

- (a) HPLC analysis:  $\geq 99\%$  of conjugates, free of any unreacted SN38.
- (b) Drug over BSA ratio: 4.36 (by UV ratio of 380/280 nm), 3.69 (by SEC ratio of 380/280 nm) and 3.12 by MALDI-TOF MS data.
- (c) Characteristic additive UV/Vis spectra of SN38 and BSA.

**Intended Use:** For research and development use only.

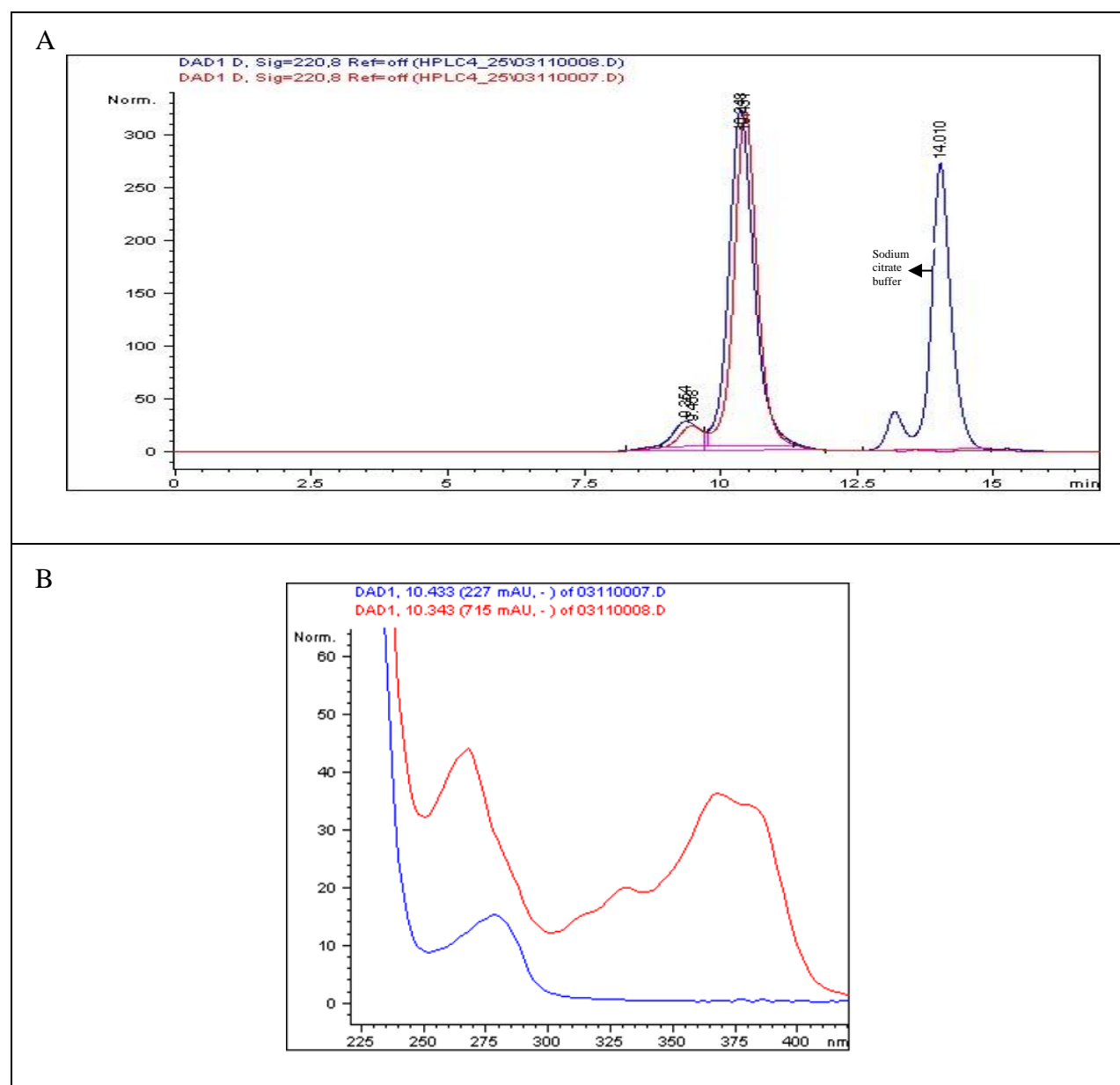
**Hazard Information:** See SDS.

**Shelf life, Storage/Stability:** The conjugate is fairly stable as solid at ambient temperature. Recommended long-term storage is at  $-20^{\circ}\text{C}$  or preferably in a  $-80^{\circ}\text{C}$  freezer. After reconstitution, the solution may be able to stay at  $2-8^{\circ}\text{C}$  for few weeks or  $-20^{\circ}\text{C}$  for few months.

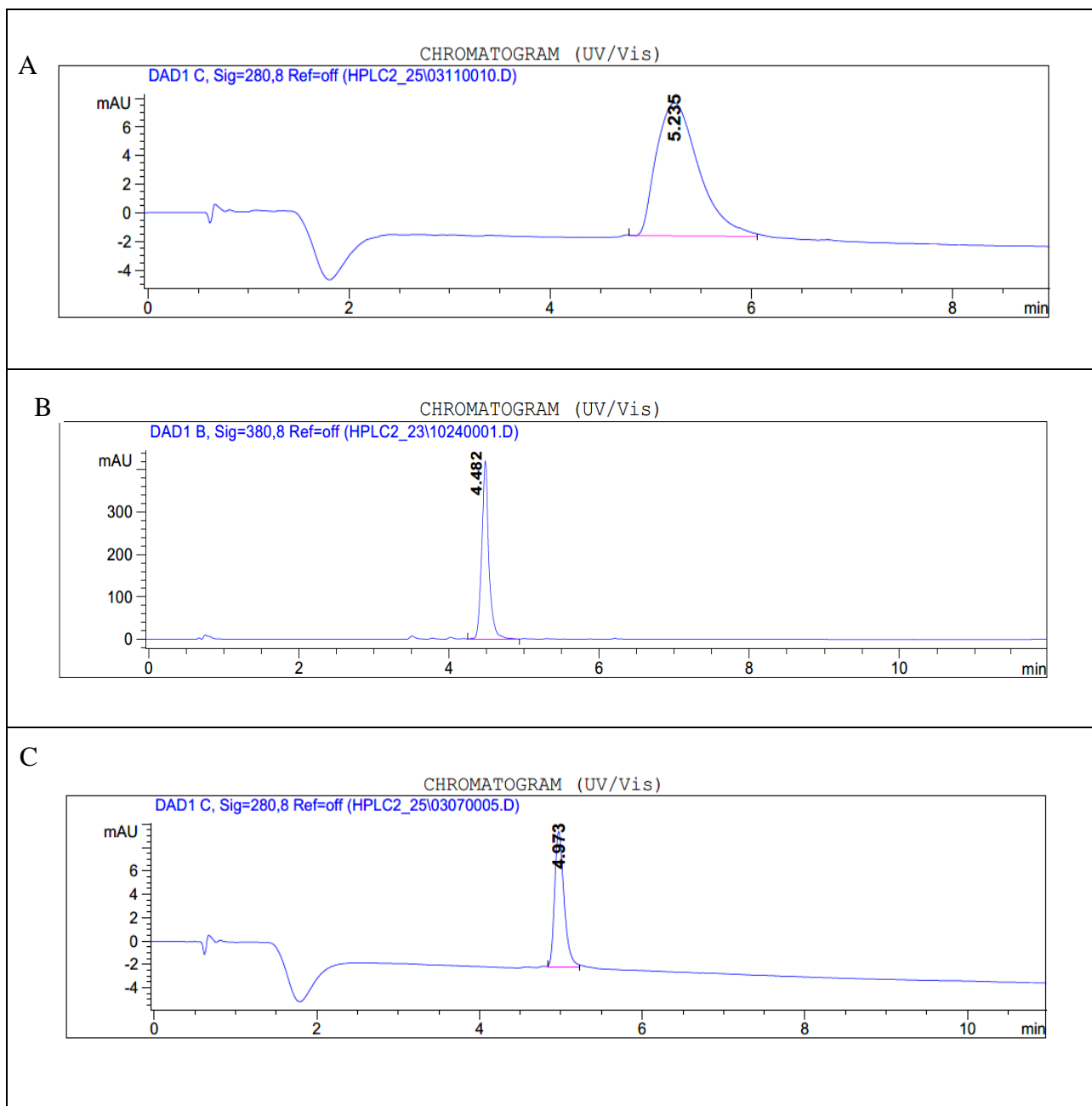
**Expiration date:** 1 year after receiving if stored at  $-20^{\circ}\text{C}$  or below.

**Data Appendix:** Size exclusion, Reversed phase HPLC, UV/Vis Spectrum and MALDI-TOF MS data.

**Figure 1.** Panel **A**: Overlay of size exclusion HPLC of BSA (before labeling, red trace) and BSA-SN38 in PBS buffer (after labeling, blue trace). Panel **B**: Overlay UV/Vis spectrum of BSA (before labeling, blue trace) and BSA-SN38 (after labeling, red trace showing SN38 absorbance at 380 nm). UV absorbance ratio (R) of BSA-SN38 at 380 nm and 280 nm: 1.170.



**Figure 2.** Reversed phase HPLC of purified BSA-SN38 Conjugate at 280 (panel A), SN38 at 380 nm(panel B) and BSA before labeling (panel C).



**Figure 3.** MALDI TOF MS Analysis of BSA-SN38 conjugate and BSA.

