



CellMosaic, Inc.
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Certificate of Analysis

Description of the Material:

- (a) Chemical Name: BSA-PEG2-Xylazine
- (b) Molecular Weight: ~70 KDa
- (c) Appearance: White lyophilized solid from PBS buffer
- (d) Concentration: Add 0.5 mL of water to obtain 1 mg/mL solution in PBS buffer, pH 7.4
- (e) Amount: Each tube contains 0.5 mg of conjugate

Material Code and Batch Number:

- (a) Part Number: CM52141-500 UG
- (b) Lot Number: S501.S10.1102C

Purity, MS Data, and Loading:

- (a) HPLC Analysis: ≥99% conjugate
- (b) MALDI-TOF MS Data for Intact Conjugate: 70,513 Da
- (c) Average PEG2-Xylazine Molecules per BSA: 11.59 by difference in MALDI-TOF MS

Intended Use: For research and development use only.

Applications: Immunization, ELISA, IHC, WB, Immunomicroscopy, Dot Blot, Flow Cytometry (recommended concentration for assay: 0.01-0.1 µg/mL)

BSA used to prepare this conjugate is:


- USA origin
- ELISA: suitable
- Blood typing: suitable
- Microbiological culture: suitable
- Heat shock fractionated
- Protease-free
- BT Virus: none detected
- VSV Virus: none detected

Hazard Information: No known OSHA hazards. See SDS for details.

Shelf Life, Storage/Stability: The product is fairly stable as solution at ambient temperature. Recommended long-term storage is at -20°C or preferably in a -80°C freezer. The solution may be able to stay at 2-8°C for a few weeks or -20°C for up to 1 year.

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

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

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HPLC ANALYSIS DATA

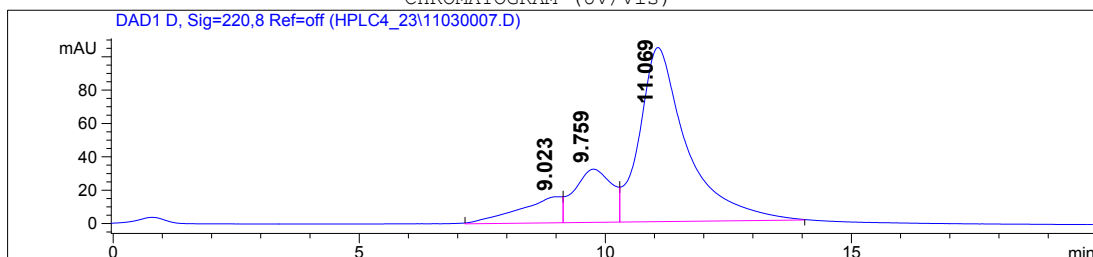
Data Acquired By:QC
Sample Location:Vial 14
Sample Name:**S501.S10.1102C**

-- SAMPLE INFORMATION --
BSA-PEG2-Xylazine-Purified(Product)
1mg/mL

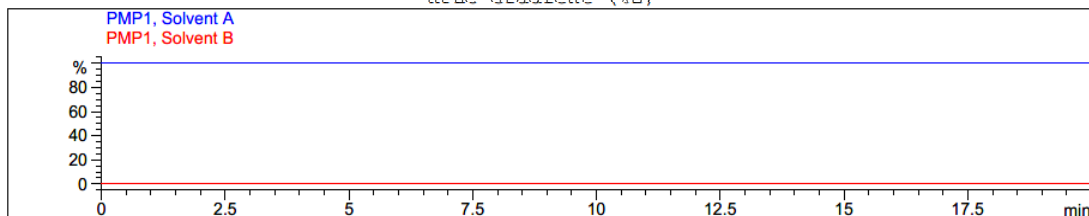
Actual injection Volume:10.0 uL
Sequence Name:
Method:C:\HPCHEM\1\METHODS\C2-3001.M
Pressure:39.8 bar
Flow:0.8 uL/min
Column Temperature(C):25.0

SEC HPLC Data of BSA-PEG2-Xylazine

CHROMATOGRAM (UV/Vis)



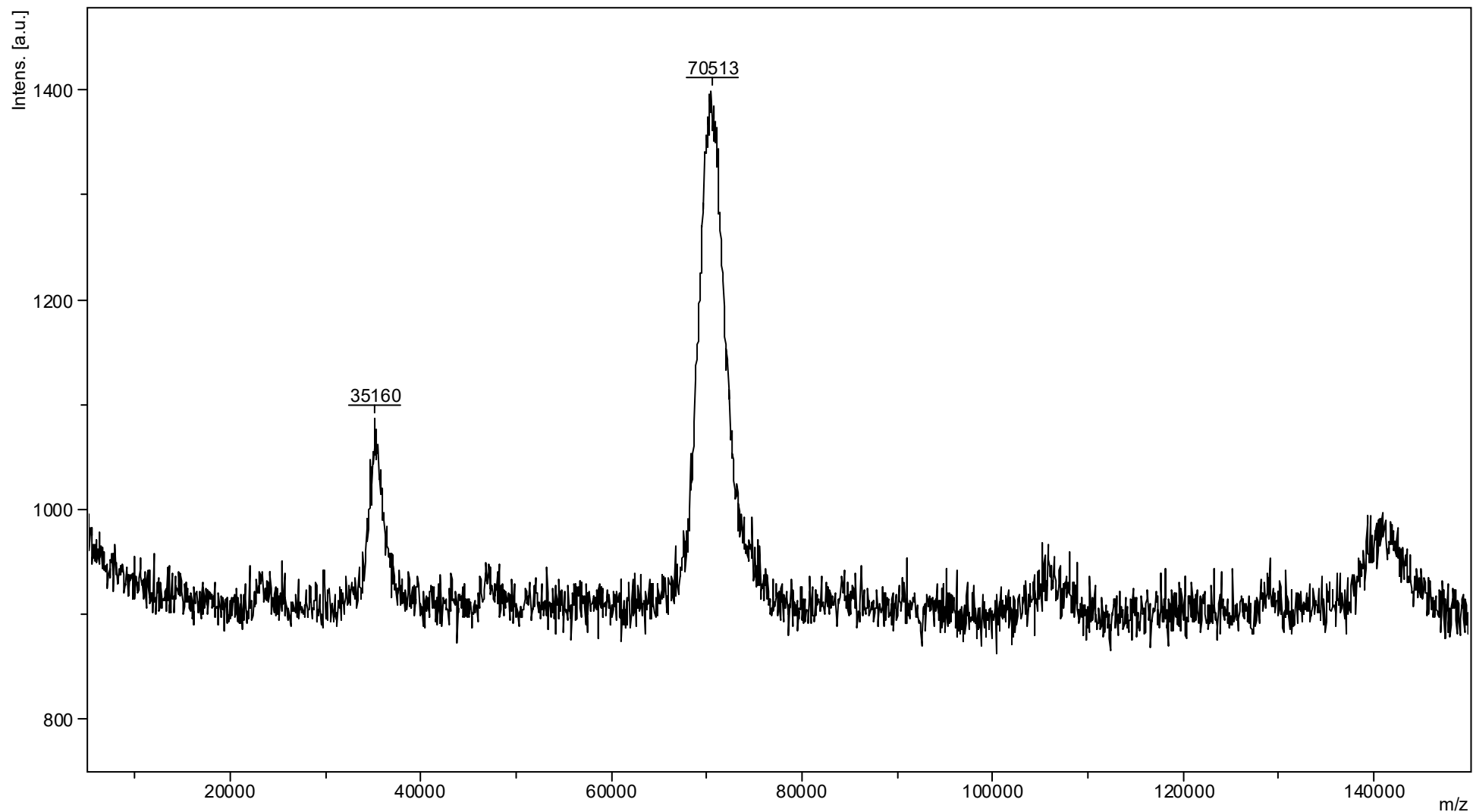
HPLC Gradient (%B)



Signal Desc.	Area	Area %	Height	Meas. Ret.
DAD1 D, Sig=220,8 Ref=off	953.2	9.9	15.7	9.02
	1702.0	17.7	31.9	9.76
	6981.8	72.4	104.4	11.07

*****END OF REPORT*****

MALDI MS data of BSA-PEG2-Xylazine Conjugate



MALDI MS data of BSA used for conjugation

