CellMosaic, INC 10A Roessler Road Woburn, MA 01801, USA

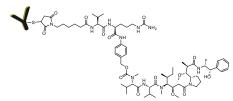
Phone: 781-463-0002; Fax: 781-998-4694; E-mail: info@cellmosaic.com

Certificate of Analysis

Description of the Material:

(a) Product Name: ADC Control hIgG1-MMAE

(b) Chemical Structure:



(c) Molecular Weight: 152 KDa

(d) Appearance: Colorless to white lyophilized powder

(e) Amount: Each tube contains either 100 μg or 500 μg product

(f) Reconstitution: Dissolve in 100 μ L (for 100 μ g tube) or 500 μ L (for 500 μ g tube) deionized water to achieve 1 mg/mL in 1xPBS buffer containing sugar-based stabilizer (no preservative)

Antibody Information:

(a) Immunogen: HEL (Hen Egg Lysozyme)

(b) Species Reactivity: Chicken

(c) Expression Host: CHO-S cell line

(d) Class: Human IgG1, Kappa

(e) Antibody Type: Monoclonal

(f) Applications: ELISA, FACS, IF, IHC, in vivo studies, IP, WB

(g) Purification Method: Affinity purified

SKU Code and Batch Number:

(h) SKU Code: CM51100-100UG, CM51100-500UG, or CM51100-1MG

(i) Lot Number: S409.S19.0617B

Purity, Endotoxin, and DAR Data:

- (a) HPLC Purity: ≥99% of MMAE labeled antibody by SEC HPLC (4.8% of aggregated), free of any unreacted MMAE.
- (b) Endotoxin Level: ≤0.5 EU/mg by the LAL method
- (c) MALDI-TOF MS Data for Intact Conjugate: 152,424 Da

(d) Drug over Antibody Ratio (DAR):

| Method | Average DAR | |
|---------------------------------|-------------|--|
| UV Ratio (A248/A280) (SEC HPLC) | 4.3 | |
| HIC HPLC | 4.0 | |
| Difference in MALDI-TOF MS | 3.8 | |

Intended Use: For research and development use only.

Hazard Information: See SDS.

Shelf life, Storage/Stability: The product is fairly stable as solid at ambient temperature. Recommended long-term storage is at -20°C or preferably in a -80°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 2–8°C refrigerator.

| Expiration Date: 1 year after receiving if stored at -20°C or below. | | | | | |
|---|--|--|--|--|--|
| Data Appendix: Size exclusion HPLC. | | | | | |
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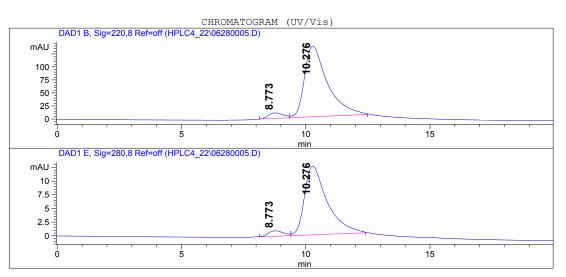
CellMosaic, Inc.www.cellmosaic.com
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SEC HPLC ANALYSIS DATA

Data Acquired By:QC Sample Location: Vial 12 Sample Name: S409.S19.0617B

SAMPLE INFORMATION S409.S19.0617B 0.996 mg/mL CM51100

Actual injection Volume: 10.0 uL Sequence Name: Method:C:\HPCHEM\1\METHODS\TSK-L5.M Pressure: 35.4 bar Flow: 0.750 mL/min Temp (C): 25.0 C



| Signal Description Wavelength(nm), Bw | Retention Time [Min.] | Area [mAU.s] | Area % |
|---------------------------------------|-----------------------|-----------------|-----------|
| DAD1 B, Sig=220,8 Ref=off | 8.773 | 439.3 | 4.8 |
| | 10.276 | 8763.6 | 95.2 |
| DAD1 E, Sig=280,8 Ref=off | 8.773 | 42.9 | 5.1 |
| | 10.276 | 802.5 | 94.9 |

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