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Certificate of Analysis

Description of the Material:

- (a) Chemical Name: KLH-Maleimide HL (Hemocyanin from Megathura crenulata)
- (b) Molecular Weight of the conjugate: ~400 KDa
- (c) CAS Registry Number: N/A
- (d) Appearance: Lyophilized powder and ready for use after reconstitution with water.
- (e) Amount: 2 mg

Material Code and Batch Number:

- (a) Part Number: CM52109-1x2MG, or CM52109-3x2MG
- (b) Lot Number: S337.S10.0314D

Purity and Loading:

- (a) HPLC Analysis: ≥99% conjugates
- (b) Active Maleimide Groups: 42 per KLH by Cy5.5 maleimide assay

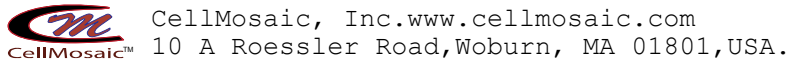
Intended use: For research and development use only.

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

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.



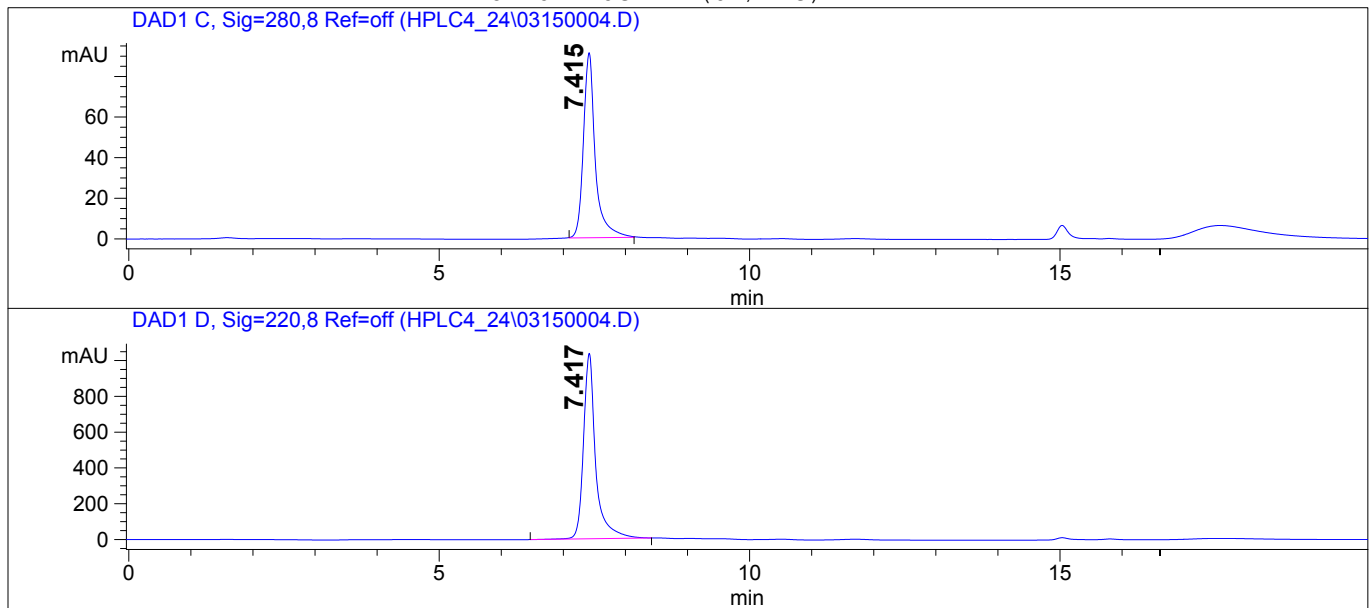
HPLC ANALYSIS DATA

Data Acquired By:QC
Sample Location:Vial 2
Sample Name:S337.S10.0314D

Actual injection Volume:10.0 uL
Sequence Name:
Method:C:\HPCHEM\1\METHODS\C2-3001.M
Pressure: 40.3 bar
Flow: 0.750 uL/min
Temp (C): 25.0 C

-- SAMPLE INFORMATION --
Maleimide KLH HL
Purified fraction
x2 in PBS

CHROMATOGRAM (UV/Vis)



Signal Description Wavelength(nm), Bw	Retention Time [Min.]	Area [mAU.s]	Area %
DAD1 C, Sig=280,8 Ref=off	7.415	1211.2	100.0
DAD1 D, Sig=220,8 Ref=off	7.417	14155.7	100.0

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