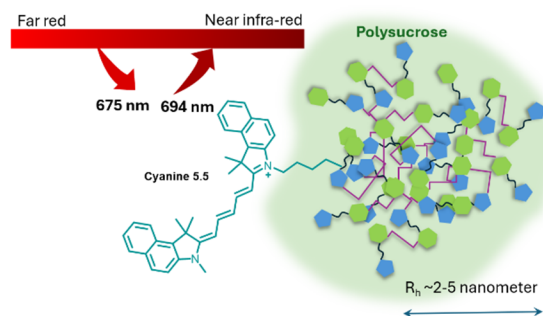


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: Cyanine 5.5 Polysucrose-400
- (b) Molecular Weight: 300-550 KDa
- (c) CAS Registry Number: N/A
- (d) Appearance: Lyophilized powder and ready for use after reconstitution with water or aqueous buffers of choice.
- (e) Amount: 100 mg
- (f) $\lambda_{\text{max}}(\text{Excitation}) = 675 \text{ nm}$
 $\lambda_{\text{max}}(\text{Emission}) = 694 \text{ nm}$
- (g) Conjugation Chemistry: Cyanine 5.5 is conjugated to polysucrose via stable bond.



Material Code and Batch Number:

- (a) Part Number: CM62106
- (b) Lot Number: NB0341871

Analysis Results:

- (a) HPLC analysis: $\geq 99\%$
- (b) Dye to Sucrose (monomer) Molar ratio: 0.0015
- (c) Dye to Sucrose (monomer) Weight ratio: 0.0034

Intended use: For research and development use only.

Hazard information: Non-hazardous.

Shelf life, Storage / Stability as supplied: The product is relatively stable at ambient temperature. Recommended storage condition for the product is $< 4-8^\circ\text{C}$. **Avoid exposure to light.**

Data Appendix: Size exclusion HPLC analysis.



CellMosaic, Inc. www.cellmosaic.com
10 A Roessler Road, Woburn, MA 01801, USA.

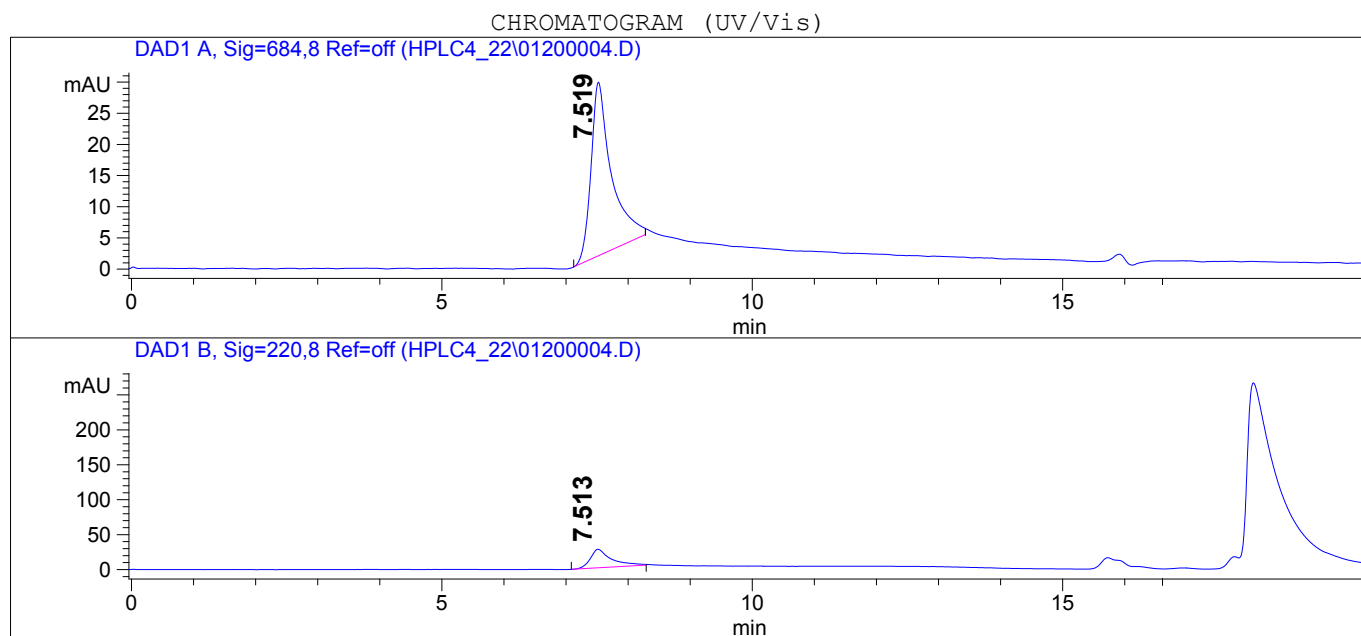
HPLC ANALYSIS DATA

Data Acquired By: QC
Sample Location: Vial 71
Sample Name: NB0341871

Actual injection Volume: 30.0 uL
Sequence Name:
Method: C:\HPCHEM\1\METHODS\TSK-L5.M
Pressure: 45.1 bar
Flow: 0.750 mL/min
Temp (C): 25.0 C

-- SAMPLE INFORMATION --
NB0341871
Polysucrose 400-Cy5.5 ->

SEC Analysis of the product



Signal Description Wavelength (nm), Bw	Retention Time [Min.]	Area [mAU.s]	Area %
DAD1 A, Sig=684,8 Ref=off	7.519	639.3	100.0
DAD1 B, Sig=220,8 Ref=off	7.513	637.8	100.0



CellMosaic, Inc. www.cellmosaic.com
10 A Roessler Road, Woburn, MA 01801, USA.

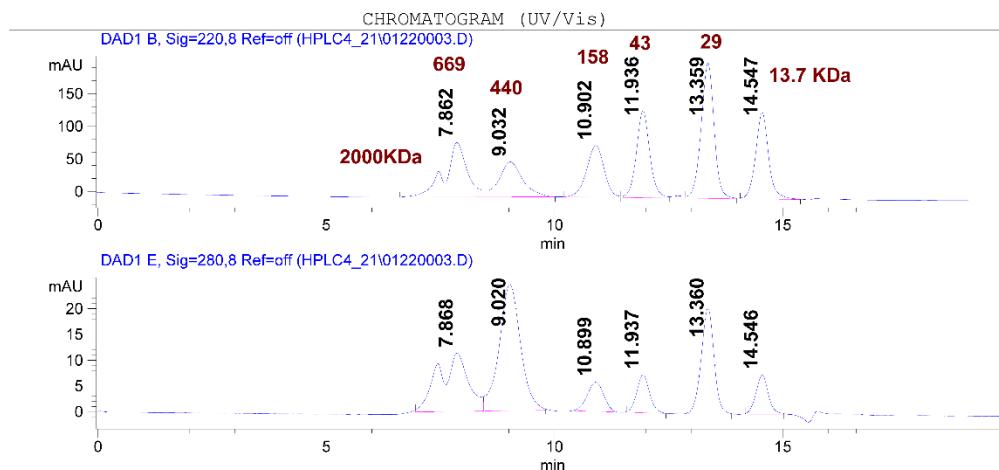
SEC HPLC Analysis of Protein Standard

Actual injection Volume: 10.0 uL
Sequence Name:
Method: C:\HPCHEM\1\METHODS\TSK-L5.M
Pressure: 52.3 bar
Flow: 0.750 mL/min
Temp (C): 25.0 C

Data Acquired By: QC
Sample Location: Vial 21
Sample Name: CM92004

-- SAMPLE INFORMATION --
CM92004
SEC std

->



Signal Description Wavelength(nm), Bw	Retention Time [Min.]	Area [mAU.s]	Area %
DAD1 B, Sig=220,8 Ref=off	7.464	713.6	4.3
	7.862	2157.9	13.1
	9.032	1952.7	11.9
	10.902	2128.3	12.9
	11.936	2735.8	16.6
	13.359	4130.4	25.1
DAD1 E, Sig=280,8 Ref=off	14.547	2650.9	16.1
	7.444	190.0	8.8
	7.868	327.0	15.2
	9.020	797.8	37.1
	10.899	141.5	6.6
	11.937	144.9	6.7
	13.360	403.0	18.7
	14.546	144.9	6.7