



Technical Data Sheet

ACS Material FluoDots

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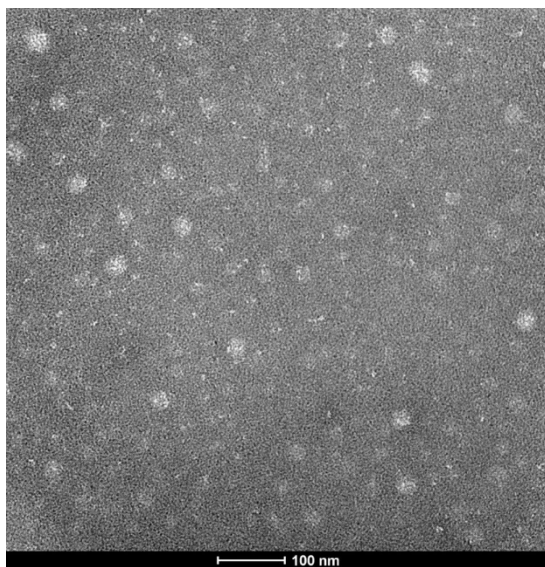
Revision: 010418

1. Preparation Method

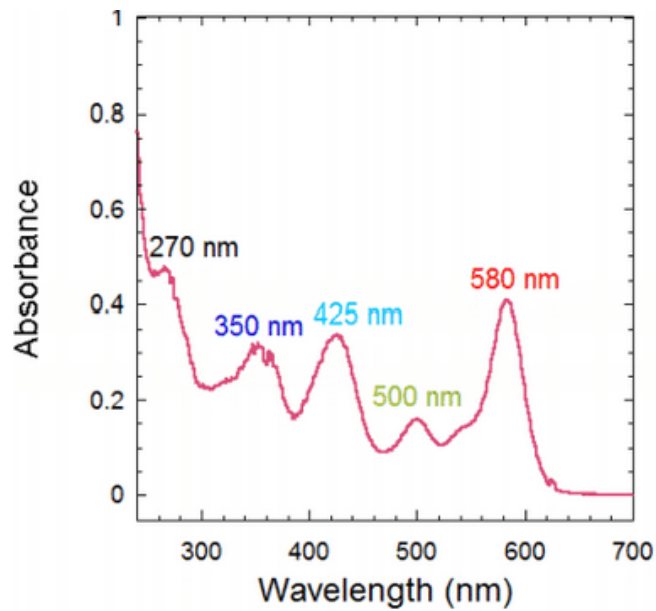
Chemical/Biochemical conjugation

2. Characterizations

Nanoparticle Consistency:	>90%
Particle Morphology:	Nearly spherical
Surface Charge:	- 23 mV
Mean Diameter:	10-13 nm
Size Distribution:	± 2 nm
Refractive Index:	1.33
Concentration:	25% solid in 75% sucrose or glucose
Functionalization:	Abundant surface COOH groups
Internal Contents:	Protein, lipid, carbohydrate and buffer salts



Typical TEM Image of ACS Material FluoDot



Typical Absorbance Spectrum of ACS Material FluoDots

3. Application Fields

- 1) Cell imaging
- 2) Solar cell coating materials
- 3) Protease detection
- 4) BioLEDs

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