SUPPORTING INFORMATION

Emission Tunable, Cyto/Hemocompatible, Near-IR-Emitting Ag_2S Quantum Dots by Aqueous Decomposition of DMSA

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Table S1: Properties of Ag_2S-DMSA NIRQDS at different DMSA/Ag ratios

DMSA/Ag.	λ_{cutoff} [a] (nm)	Size [b] (nm)	Band Gap (eV)	$\lambda_{em,max}$ (nm)	FWHM (nm)	Zeta potential (mV)	QY [c] %
1.5	844	2.73	1.47	828	158	-57	-
2.5	810	2.62	1.53	810	139	-54	6.5
3.5	837	2.70	1.48	834	134	-56	6.4*

T= 70 ^{0}C pH=7.5, reaction time =4h. [a] Absorbance onset, [b] Calculated by Brus equation, [c] Quantum yield is calculated with respect to LDS 798 NIR dye, * QY is calculated from the 7h. sample.

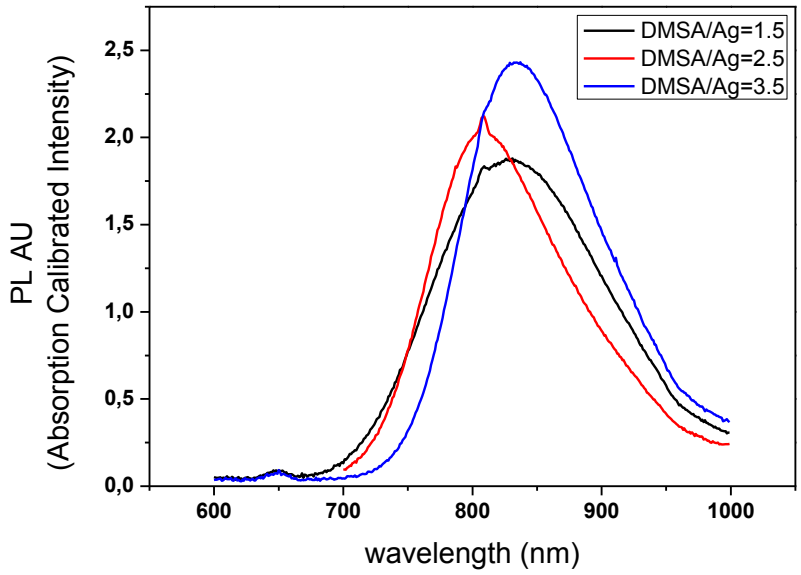

Fig. S1: Comparsion of the Photoluminescence spectra of the Ag_2S-DMSA NIRQDs at different SH/Ag ratio at the same reaction time (4h.) and the temperature (90 ^{o}C).

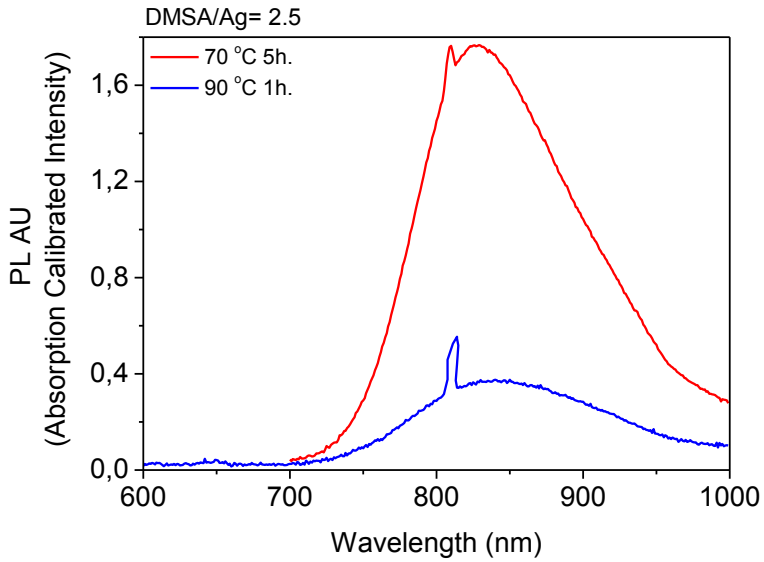

Fig. S2: Comparsion of the Photoluminescence spectra of the Ag_2S-DMSA NIRQDs synthesized at different temperature but same DMSA/Ag ratio of 3.5

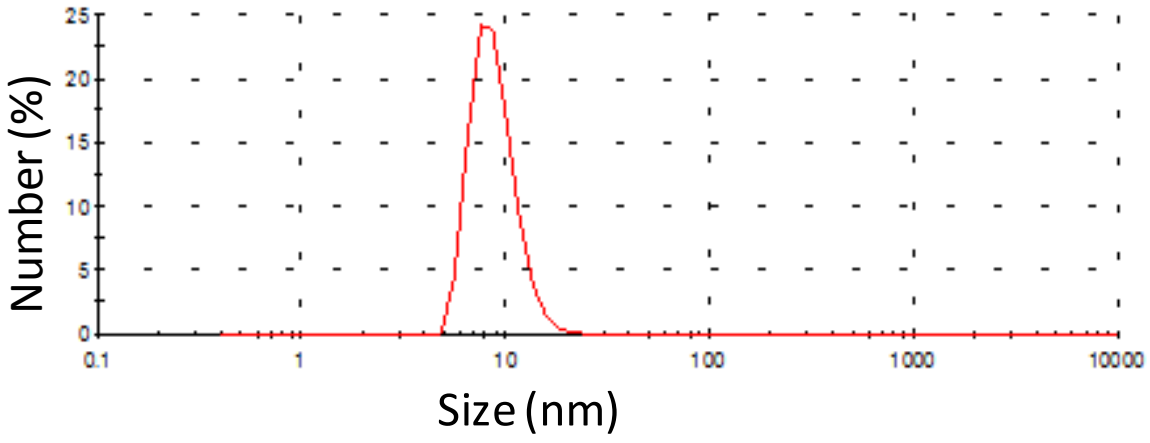

Fig. S3: Hydrodynamic size of the Ag_2S-DMSA NIRQDs (9 nm) by DLS. Sample is identical to the sample analyzed by TEM and shown in Fig.4.

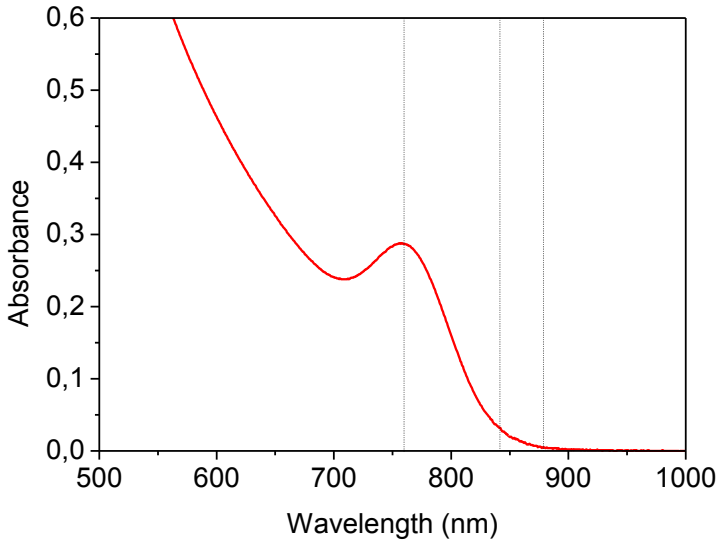

Fig S4: Absorbance spectrum of Ag_2S-DMSA NIRQDs DMSA/Ag=2.5 for Brus evaluation. Sample is identical to the sample analyzed by TEM and shown in Fig.4.