



Technical Specifications

Updated 10/18/2022

PbS Quantum Dots

Composition	Lead Sulfide
Stabilizing ligand	Oleic Acid
Concentration	10mg/mL
Organic Impurities	<1% (not including ligands)
Solvent*	Toluene
Lifetime	One year if stored properly. Dark at 2-8°C
PL FWHM (nm)	NA
UV-Vis FWHM (nm)	150nm
Quantum Yield	+40%
pH Stability	Na
Buffer Stability	Na

*Other solvents are available upon request.

Catalogue #	Absorption Peak (nm)	Emission peak	Diameter (nm)	nmol/mg	Amount/ Volume
PBS1100	1100 +/- 50nm	NA	3.5	5.6	50mg/5mL
PBS1200	1200 +/- 50nm	NA	4.0	4.0	50mg/5mL
PBS1300	1300 +/- 50nm	NA	4.2	3.5	50mg/5mL
PBS1400	1400 +/- 50nm	NA	4.6	2.7	50mg/5mL
PBS1500	1500 +/- 50nm	NA	5.1	2.1	50mg/5mL
PBS1600	1600 +/- 50nm	NA	5.7	1.6	50mg/5mL

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