



## Technical Specifications

Updated 10-18-22

### PbSe Quantum Dots

<b>Composition</b>	Lead Selenide
<b>Stabilizing ligand</b>	Oleic Acid
<b>Concentration</b>	10mg/mL
<b>Organic Impurities</b>	<1% (not including ligands)
<b>Solvent*</b>	Toluene
<b>Lifetime</b>	One year if stored properly. Dark and under inert gas. **
<b>PL FWHM (nm)</b>	NA
<b>UV-Vis FWHM (nm)</b>	<150nm
<b>Quantum Yield</b>	>20%
<b>pH Stability</b>	Na
<b>Buffer Stability</b>	Na

\*Other solvents are available upon request.

\*\*To store under inert gas, use a vial with a tight-fitting Teflon lid and ensure the seal is airtight. Aliquot the sample as desired then direct a gentle stream of nitrogen or argon gas down into the vial for few seconds, then cap the vial tightly and seal.

<b>Catalogue #</b>	<b>Absorption Peak (nm)</b>	<b>Emission peak</b>	<b>Diameter (nm)</b>	<b>nmol/mg</b>	<b>Amount/ Volume</b>
<b>PBSE1200</b>	1200 ± 50nm	NA	2.9	9.0	50mg/5mL
<b>PBSE1300</b>	1300 ± 50nm	NA	3.3	6.0	50mg/5mL
<b>PBSE1400</b>	1400 ± 50nm	NA	3.8	4.3	50mg/5mL
<b>PBSE1500</b>	1500 ± 50nm	NA	4.3	3.1	50mg/5mL
<b>PBSE1600</b>	1600 ± 50nm	NA	4.8	2.4	50mg/5mL

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