

## Product Specification

### Product: Sapphire™ Nanocrystal Quantum Dots NC665

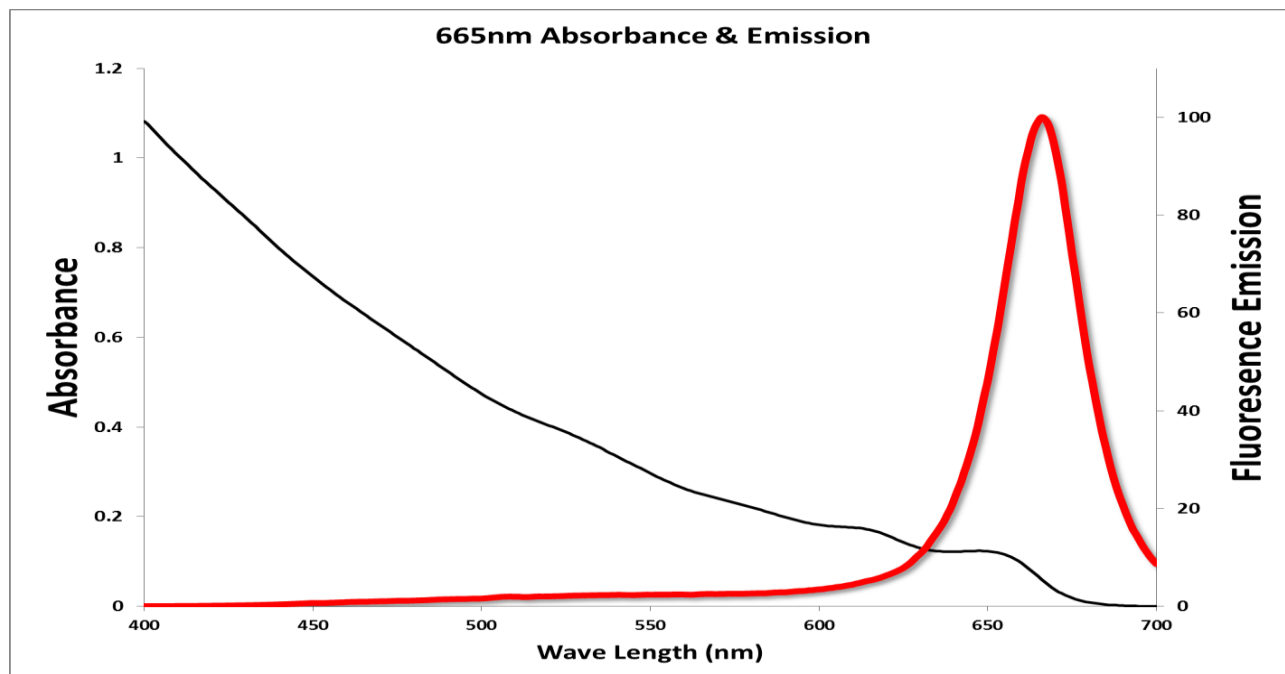
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#### Contents

The vial(s) contain CdS<sub>x</sub>Se<sub>1-x</sub>/ZnS core/shell quantum dots coated with aluminum oxide and oleic acid as ligand. The physical properties of quantum dots are as follows: the emission wavelength,  $\lambda_{max}$ , is 665±5 nm; full width at half maximum (FWHM) of the emission spectra is 30 +/-5 nm; size (in diameter) is 8-10 nm; and the quantum yield is 85-95%. The quantum dots are normally shipped in toluene. Quantum dots are also available in other solvents by request.

#### Instructions

The quantum dots should be stored in the dark at 4 °C. The shelf life is approximately one year under these conditions. Quantum dots may be isolated by using a polar solvent/nonpolar solvent precipitation method. Normally, methanol is used as the polar solvent. Quantum dots will begin to precipitate at 30-40% methanol in toluene.



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