

## PRODUCT DATA SHEET

### Cadmium Selenide/Zinc Sulfide Quantum Dots 540nm - Carboxyl

#### Catalog Numbers:

- QD-540-C-1MG (1 mg, 2 nmol)
- QD-540-C-5MG (5 mg, 10 nmol)
- QD-540-C-10MG (10 mg, 20 nmol)
- QD-540-C-25MG (25 mg, 50 nmol)

#### Description

The vial(s) contains water dissolved CdSe/ZnS core/shell fluorescent nanocrystals at a concentration of 5 mg/ml (1nmol/mg).

- Proprietary surface passivation and ligand technology isolates the core from oxygen and harmful ions that can degrade quantum dot performance over time.
- Photostable (no bleaching)
- Narrow and sharp emission peaks
- Comparable quantum efficiencies (>40%) throughout the visible spectrum

#### Characteristics

**Diameter:** 10-11nm

**Amount:** 1, 5, 10, 25mg

**Emission ( $\lambda$  max):** 530-550nm

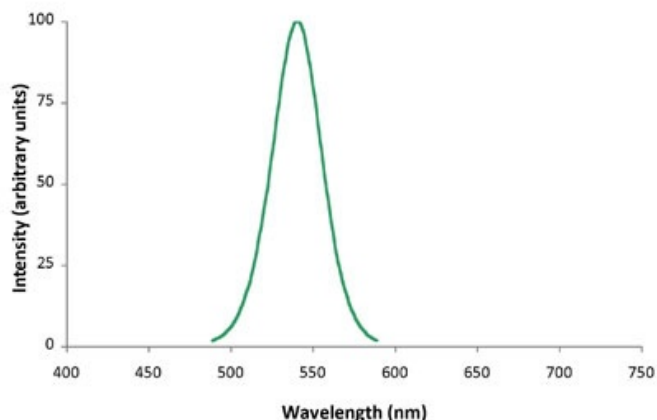
**Full width at half maximum (FWHM):** 21-24nm

**Supplied in deionized water**

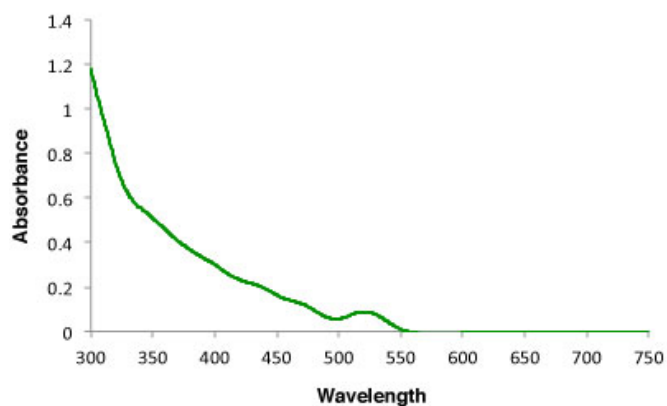
#### Storage

This product should be stored at 4°C in the dark. If stored as specified, Cytodiagnos<sup>t</sup>ics Quantum Dots have a shelf life of approximately one year.

#### Emission Spectra



#### Excitation Spectra





## **Product Safety and Handling**

This product is for R&D use only, not for drug, household, or other uses. Please review the safety datasheet (SDS) available online for proper safety and handling procedures

## **Ordering Information**

For ordering call 866-344-3954 or visit us online at [www.cytodiagnosics.com](http://www.cytodiagnosics.com)