



## PRODUCT DATA SHEET

### PbS/CdS Quantum Dots in Hexane

Quantum dots (QDs) are fluorescent semiconductor nanocrystals. Abvigen offers a complete line of core/shell Quantum dots products in solid form, in organic solvents or aqueous solution. Abvigen's Quantum dots can be used in photovoltaics, light emitting diodes (LEDs), telecommunication and diode lasers. They can also be used in sensing, drug delivery, cell imaging, labeling of biomolecules, as well as other applications in life sciences and biotechnology.

For custom sizes, formulations or bulk quantities please contact our customer service department.

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Cat No	Product Name	Full Width at Half Maximum	Quantum Yield
BO-Cd-8-85	PbS/CdS Quantum Dots in Hexane, 850± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-95	PbS/CdS Quantum Dots in Hexane, 950± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-105	PbS/CdS Quantum Dots in Hexane, 1050 ± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-115	PbS/CdS Quantum Dots in Hexane, 1150 ± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-125	PbS/CdS Quantum Dots in Hexane, 1250 ± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-135	PbS/CdS Quantum Dots in Hexane, 1350 ± 10 nm	≤ 120 nm	≥ 60%
BO-Cd-8-145	PbS/CdS Quantum Dots in Hexane, 1450 ± 10 nm	≤ 120 nm	≥ 60%

#### Characteristics

Concentration: 5 mg/ml; 10 mg/ml

Size: 10 mg

Emission range: 850 nm-1450 nm

Buffer: Hexane

Form: Suspension

Shipping Condition: Ambient Temperature

Storage: 4°C

#### Properties

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Size tunable emission wavelength

Superior brightness

High resistance to photobleaching

Simultaneous excitation of multiple colors from a single light source

These properties make Quantum dots a unique class of light emitting nanoparticles that find promising potentials in optoelectronics, biotechnology and medicines

## Features

Narrow emission peak

Wide choice of emission colors

High colloidal stability

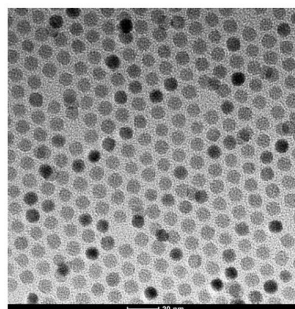
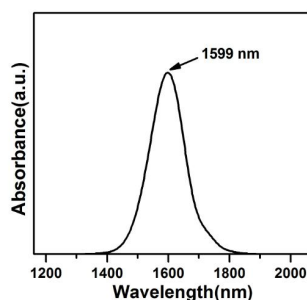
## Applications

Display

Solid-state lighting

Solar cells

QLED



## Ordering Information

website: [www.abvigen.com](http://www.abvigen.com)

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