

NS6130-12-000565

Cadmium Selenide SILICA Core Shell

Quick Facts

Product	:	CdSe/Sio2 core shell Nanoparticles
Stock No	:	NS6130-12-000565
Purity	:	99.9%
Molecular Formula	:	Cdse/Sio2
Form	:	Powder
APS	:	80-100nm

Purity
99.9%

CdSe Nps structure are coated with silica spheres to improve their stability in biological buffers and biocompatibility in fluorescence imaging which yielded uniform sizes and narrow polydispersity. We found that it was critical to transfer quantum dots from organic phase to aqueous phase before the silica shell growth process. As a result, high quality CdSe-ZnS-SiO2 core-shell-shell nanoparticles were prepared in high yields and their size and distribution are characterized with transmission electron microscopy and dynamic light scattering. Single particle fluorescence spectroscopy on the silica-protected quantum dots showed they were stronger emitters with consistent fluorescence intensity and "on-off" behaviors than bare CdSe-ZnS nanocrystals.

Applications:

- As Adhesive and Sealer
- In Material Packing
- In Textile Industry
- In Catalysis
- In Bactericide field
- As Lubricating oil additives

Cdse/Sio2
APS 80-100 nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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