

# Center for Applied Nanotechnology

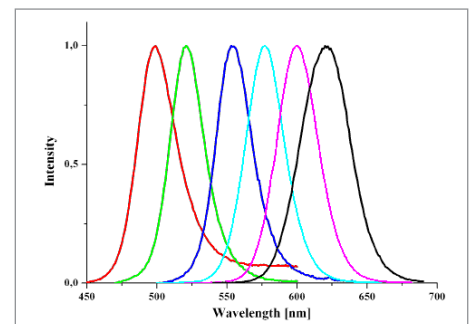
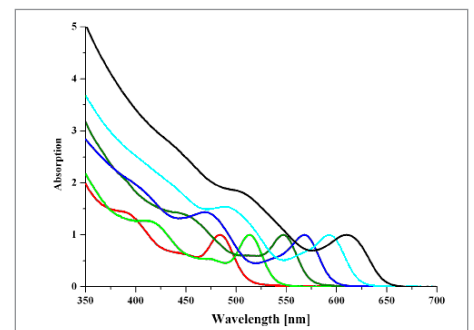
## CANdot® Series A

**CANdot® Series A:** fluorescent nanoparticles covering the visible wavelength range from 500 to 625 nm. Soluble in nonpolar organic solvents like hexane, chloroform or toluene these particles have a narrow size distribution and are therefore characterized by narrow fluorescence bands and high photostability.

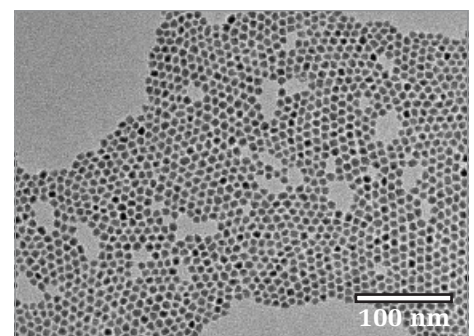


An innovative production process allows production even of larger amounts of nanoparticles at a much lower cost than before. Another advantage over previous production processes is the very good reproducibility of particle properties.

Research facilities as well as product development will profit from this never before achieved reproducibility. With our international distributor STREM we are now able to offer a wide range of CANdot® Series A. This allows broader use especially in the field of medical research and rounding off CAN's portfolio of fluorescent particles.



Absorption (top) and fluorescence measurements (bottom) of CANdot® Series A particles



TEM image of core/shell/shell particles

Features		Advantages	
Material	CdSe/ZnSe/ZnS double-shell nanoparticles	High reproducibility	0.1% significance
Solubility	nonpolar organic solvents	Continuous flow process	small particle size distribution
Bandgap	2.0 – 2.5 eV	Monodispersity of CANdots®	narrow fluorescence band
Emission maximum	500 – 625 nm	Stabilizing organic ligand shell	improved quantum yield
FWHM	typically < 35 nm	Core/shell/shell structure	high stability

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