

Technical Specifications

Updated 10-17-18

InP/ZnS Core-Shell Quantum Dots in Water

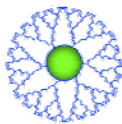
Composition	Indium Phosphide / Zinc Sulfide quantum dots
Stabilizing ligand	Carboxylic Acid ligands
Concentration	Order amount dependent
Organic Impurities	<1% (not including ligands)
Solvent*	DI Water
Volume	Order amount dependent
Lifetime	Six months if stored properly. Dark at 2-8°C
PL FWHM (nm)	50-60
UV-Vis FWHM (nm)	30-40
Quantum Yield	>10%
pH Stability	7-9
Buffer Stability	Borate, Tris, HEPES, PBS, MES, etc.

*Other solvents are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	Molecular weight (g/mol)	nmol/mg
INPW-530	490-510	530±15	9.0E04	6.5
INPW-560	550-570	560±15	1.1E05	5.5
INPW-590	570-590	590±15	4.6E05	4.0
INPW-620	600-620	620±15	2.2E05	3.0
INPW-650	620-640	650±15	2.4E05	3.0

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) **	Total Diameter (nm)
INP-530	2.5	1.5	3.7±0.5
INP-560	3.0	1.3	4.0±0.5
INP-590	3.5	1.2	4.5±0.5
INP-620	3.9	1.0	5.0±0.5
INP-650	4.3	1.0	5.2±0.5

**Thickness of shell is expressed as total diameter added to core.