



## Technical Specifications

Updated 10-17-18

### D-dots™ in Water

<b>Composition</b>	Manganese doped Zinc Selenide Nanocrystals
<b>Stabilizing ligand</b>	Carboxylic acid group
<b>Concentration</b>	Order amount dependent
<b>Organic Impurities</b>	<1% (not including ligands)
<b>Solvent</b>	DI Water
<b>Volume</b>	Order amount dependent
<b>Lifetime*</b>	6 months if stored properly. Dark at 2-8°C
<b>PL FWHM (nm)</b>	70 – 80
<b>Quantum Yield</b>	> 30%
<b>pH Stability</b>	4-10
<b>Buffer Stability</b>	Borate, Tris, HEPES, PBS, MES, etc

\*Has not fully been tested

<b>Catalogue #</b>	<b>UV peak (nm)</b>	<b>Emission Peak (nm)</b>	<b>Size (nm)</b>	<b>Molecular weight (g/mol)</b>	<b>nmol/mg</b>
DDW-600	NA	600±10	7.0±0.5	4.8E05	2.0
DDW-620	NA	620±10	8.0±0.5	6.9E05	1.5

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