



## Technical Specifications

Updated 2/12/2019

### Quantum Dot Microsphere with Carboxylic Acid Functional Group

<b>Composition</b>	CdSe/ZnS encased in amphiphilic macromolecules
<b>Stabilizing ligand</b>	Carboxylic Acid
<b>Concentration</b>	1uM
<b>Volume</b>	1 mL, 5 mL, 10 mL
<b>Lifetime</b>	Six months if stored properly at 2-8°C
<b>Surface Potential</b>	-35±5 mV
<b>Buffer</b>	Deionized Water
<b>Preservative</b>	0.05% NaN <sub>3</sub>
<b>Uniformity</b>	C.V.% <5%

<b>Catalogue #</b>	<b>Emission Peak (nm)</b>	<b>Hydrodynamic Radius (nm)</b>	<b>Quantum Yield</b>	<b>FWHM (nm)</b>
QDM-525	525±10	180±35	≥60%	≤30
QDM-565	565±10	140±20	≥60%	≤30
QDM-585	585±10	120±20	≥60%	≤30
QDM-610	610±10	120±20	≥60%	≤30
QDM-625	625±10	120±20	≥60%	≤30
QDM-655	655±10	140±20	≥30%	≤40

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