## Technical Specifications

### CdS Core Quantum Dots

<table>
<thead>
<tr>
<th>Composition</th>
<th>Cadmium Sulfide Quantum Dots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stabilizing ligand</td>
<td>Oleic acid ligand</td>
</tr>
<tr>
<td>Concentration</td>
<td>Order amount dependent</td>
</tr>
<tr>
<td>Organic Impurities</td>
<td>&lt;1% (not including ligands)</td>
</tr>
<tr>
<td>Solvent*</td>
<td>Toluene</td>
</tr>
<tr>
<td>Volume</td>
<td>Order amount dependent</td>
</tr>
<tr>
<td>Lifetime</td>
<td>One year if stored properly. Dark at 2-8°C</td>
</tr>
<tr>
<td>PL FWHM (nm)</td>
<td>16-24</td>
</tr>
<tr>
<td>UV-Vis FWHM (nm)</td>
<td>26-34</td>
</tr>
<tr>
<td>Quantum Yield</td>
<td>&gt;20%</td>
</tr>
</tbody>
</table>

*Other solvents are available upon request.

<table>
<thead>
<tr>
<th>Catalogue #</th>
<th>UV peak (nm)</th>
<th>Emission Peak (nm)</th>
<th>Size (nm)</th>
<th>nmol/mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-360</td>
<td>360±10</td>
<td>365-390</td>
<td>2.3</td>
<td>20.0</td>
</tr>
<tr>
<td>CS-380</td>
<td>380±10</td>
<td>385-410</td>
<td>2.8</td>
<td>15.0</td>
</tr>
<tr>
<td>CS-400</td>
<td>400±10</td>
<td>405-430</td>
<td>3.4</td>
<td>10.0</td>
</tr>
<tr>
<td>CS-420</td>
<td>420±10</td>
<td>425-450</td>
<td>4.1</td>
<td>6.0</td>
</tr>
<tr>
<td>CS-440</td>
<td>440±10</td>
<td>445-470</td>
<td>4.9</td>
<td>4.5</td>
</tr>
<tr>
<td>CS-460</td>
<td>460±10</td>
<td>465-490</td>
<td>5.7</td>
<td>3.0</td>
</tr>
</tbody>
</table>