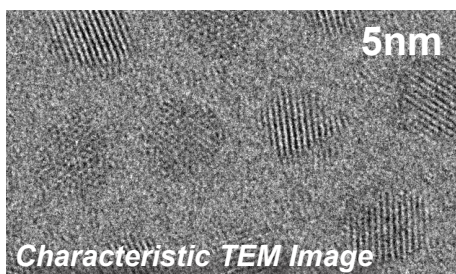
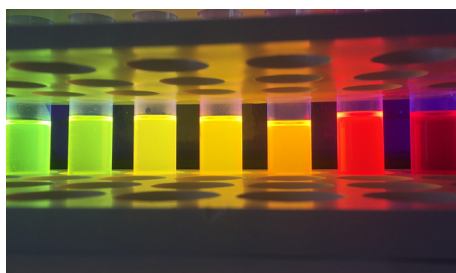


Sold under a distribution agreement with UbiQD, Inc. for research purposes only. US Patent No. US9748422.

| <b>Copper Indium Disulfide/Zinc Sulfide Quantum Dots, QY &gt;75%</b><br>CAS# 927198-36-5; Available Unit Sizes: 50mg, 250mg |                      |              |
|---|----------------------|--------------|
| <b>Catalog #</b>  | <b>Peak Emission</b> | <b>FWHM</b>  |
| <b>29-8500</b>  | 550nm ± 10nm         | 115nm ± 20nm |
| <b>29-8510</b>  | 590nm ± 10nm         | 120nm ± 20nm |
| <b>29-8520</b>  | 630nm ± 10nm         | 125nm ± 20nm |
| <b>29-8530</b>  | 680nm ± 10nm         | 130nm ± 20nm |
| <b>29-8540</b>  | 800nm ± 10nm         | 180nm ± 20nm |
| <b>29-8550</b>  | 950nm ± 10nm         | 330nm ± 20nm |



### ADVANTAGES OVER TRADITIONAL QDs

- ◆ Free of toxic heavy metals (e.g. Cd, Pb) or phosphines
- ◆ Made via safe and scalable non-injection synthesis
- ◆ Bright PL (up to >75% QY) tunable from 550 to 950nm
- ◆ Low self-absorption due to a large Stokes shift >300 meV
- ◆ Stable PL at elevated temperature in air, water, and various composites

### USE & HANDLING RECOMMENDATIONS

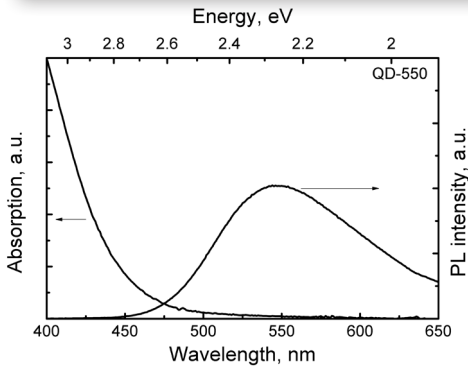
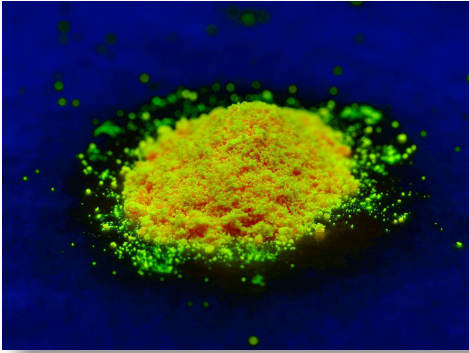
Products are shipped in powder form, and are soluble in non-polar solvents (e.g., toluene, chloroform). Typical concentrations are ~5-200 mg/mL for most applications. The dots have been cleaned by dissolution/precipitation three times to form a dried powder. Suggested use within 12 months of receipt.

### PRODUCT SPECIFICATIONS

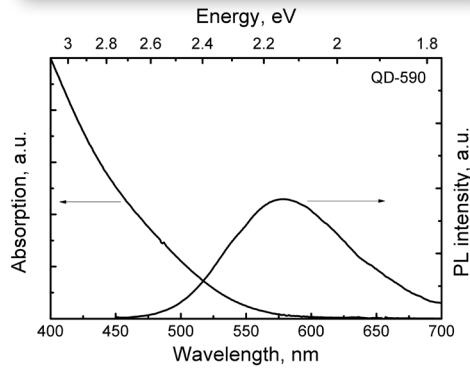
|                             |   |
|-----------------------------|---|
| <b>QY</b>                   | >75%                                      |
| <b>Material composition</b> | CuInS <sub>2</sub> /ZnS                   |
| <b>Material Form</b>        | Powder                                    |
| <b>Compatible Solvents</b>  | Nonpolar solvents:<br>toluene, chloroform |
| <b>Particle Size</b>        | 5-10nm                                    |

# Product Images & Spectra Graphs

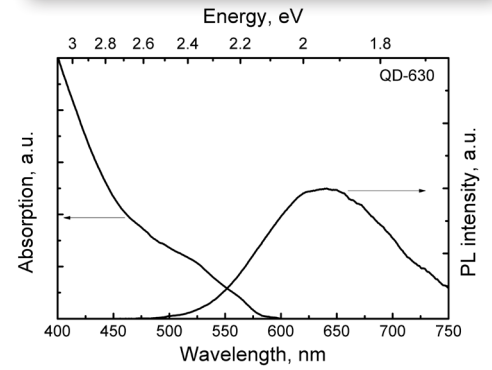
**Peak Emission: 550nm**



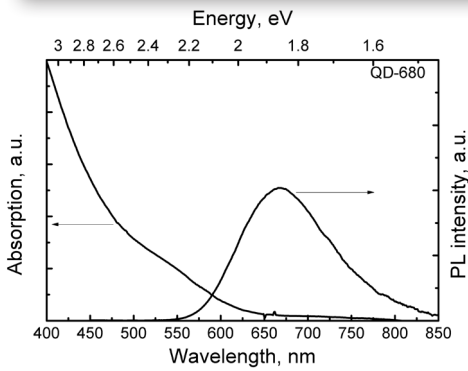
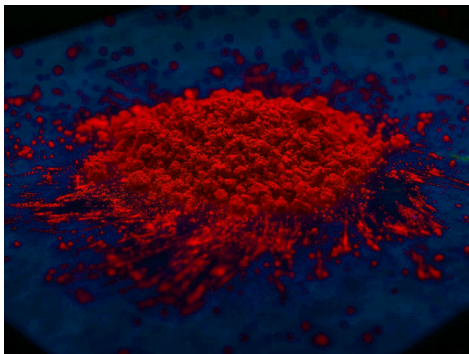
**Peak Emission: 590nm**



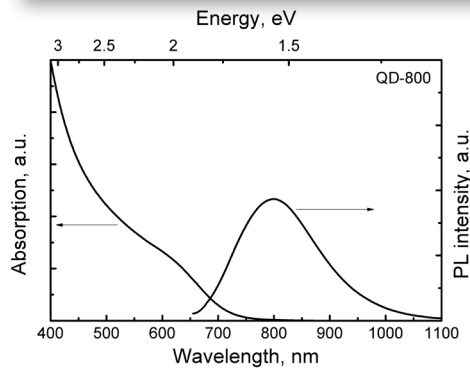
**Peak Emission: 630nm**



**Peak Emission: 680nm**



**Peak Emission: 800nm**



**Peak Emission: 950nm**

