



CdHgTe NEAR INFRARED EMISSION QUANTUM DOT **ADS820QD**

INTRODUCTION

American Dye Source, Inc. is now offering from gram to kilogram quantity aqueous solution of semiconducting quantum dots, which emit strong fluorescent light from blue to near infrared upon exposure to ultraviolet radiation.

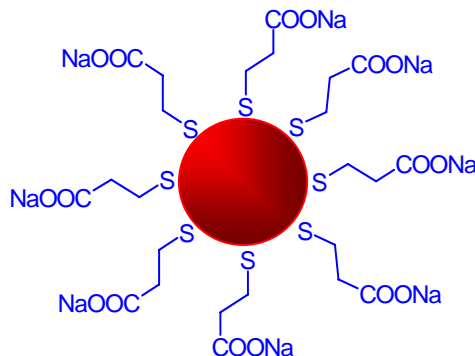
DESCRIPTION

ADS820QD is CdHgTe quantum dot dispersed in water. This product can be used for various applications that include sol gel coatings, polymer coatings, biomedical probes, biosensors and fluorescent water based inks.

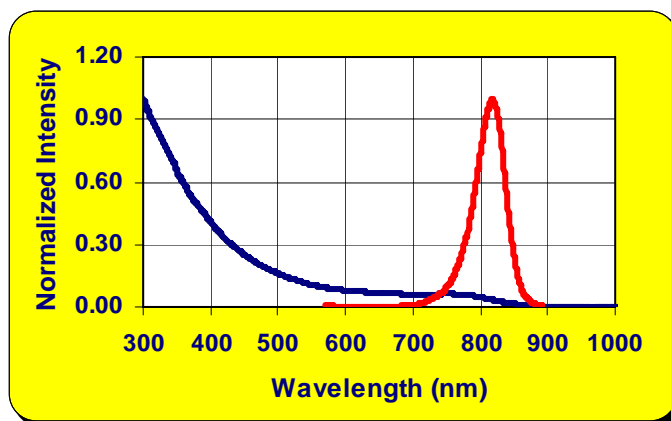
TECHNICAL DATA

- ❑ Appearance: Brownish solution
- ❑ Concentration: 0.25 % based on Cd
- ❑ pH: 10 - 11
- ❑ Excitation wavelength: 465 - 550 nm
- ❑ Emission wavelength: 820 ± 10 nm
- ❑ Quantum yield: > 30 %
- ❑ Particle size: 5.5 – 7.5 nm
- ❑ Package: in N₂ sealed bottle
- ❑ Shelf life: 6 months

STRUCTURE



SPECTRA



Absorption and emission spectra of ADS820QD quantum dot in aqueous solution.

CONTACT INFORMATION

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