

Technical Data Sheet of Carbon Quantum Dots Yellow, Nitrogen Doped Properties

Form: Dispersion in water/ethanol

Quantum Yield: >%13 (Exc:365nm, in water)

CAS Number: 7440-44-0

Fluorescence: 492 nm

Hydrophilic - HPLC Grade Ethanol, Acetone, Methanol, Dimethylsulfoxide, Dimethyl formamide
Surfactant Free

Concentration: 2 mg/mL stock solution (to be diluted at least 20x for obtaining maximum PL intensity)

SUNUM e-Store Product Number: CQD-YND-012

Product Description

Carbon quantum dots (cqds) are new emergent materials with unique photophysical properties. They have become center attention in nanotechnology with their inexpensive production cost, unusual emission properties and high biocompatibility&non-toxicity. Carbon quantum dots (cqds) are mainly synthesized in aqueous medium, due to their characteristic surface properties, and have emission spectrum in blue - green light region. They have been widely used in many application areas, especially in biotechnology, bioimaging ,biosensors, and biomolecule/drug delivery.

Application areas: Biotechnology, bioimaging, biosensors, biomolecule, drug delivery, photocatalysis, energy conversion, sensing, solar cells, supercapacitors, optronics, catalysis, fingerprint recovery.

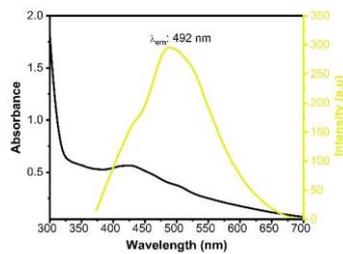
Shipping: Ready to ship in 5 business days

Storage conditions: +4 °C

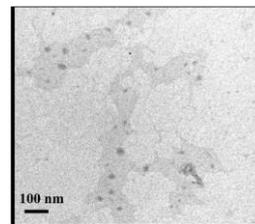
Packaging: 10 mL

Quality Control

UV/Vis spectra of sulfur doped TEM patterns of cqds
Yellow carbon quantum dots



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Yellow carbon quantum dots



TEM patterns of cqds