

Technical Data Sheet of Carbon Quantum Dots Blue, Nitrogen Doped

Properties

Form : Dispersion in water/ethanol

Quantum Yield : >%24 (Exc:365nm, in water)

CAS Number: 7440-44-0

Fluorescence : 451 nm

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

Concentration : 10 mg/mL stock solution

Sunum e-store product number : CQD-BND-007

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.

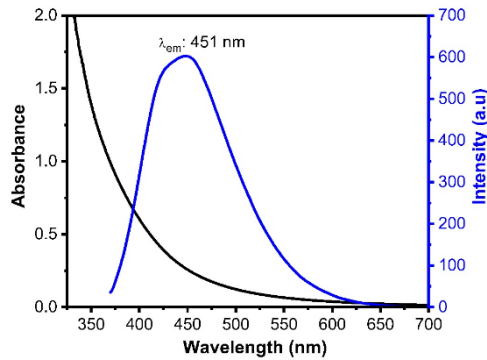
Application areas: Biotechnology, bioimaging, biosensors, biomolecule, drug delivery, photocatalysis, energy conversion, sensing, solar cells, supercapacitors, optronics, catalysis, fingerprint recovery.

Shipping: Ready to ship in 5 business days

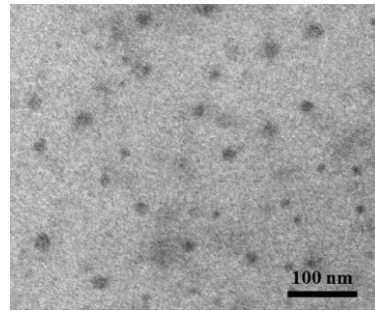
Storage conditions: +4 °C

Packaging : 10 mL

Quality Control



UV/Vis spectra of sulfur doped
green carbon quantum dots



TEM patterns of cqds