

Technical Data Sheet of Carbon Quantum Dots Turquoise, Sulfur and Nitrogen Doped

Properties

Form : Dispersion in ethanol

Quantum Yield : >%35 (Exc:400nm)

CAS Number: 7440-44-0

Fluorescence : 475 nm

Hydrophilic - HPLC Grade Ethanol

Surfactant free

Concentration : $\geq 2\%$ in H₂O

Sunum e-store product number : CQD-TSND-009

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.

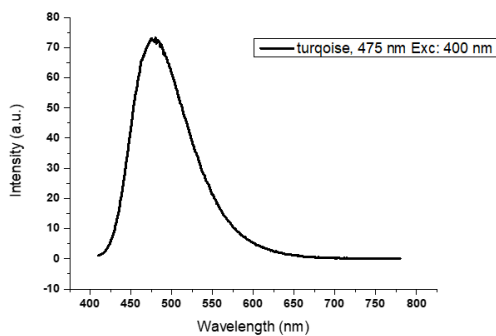
Application areas: Biotechnology, bioimaging, biosensors, biomolecule, drug delivery, photocatalysis, energy conversion, sensing, solar cells, supercapacitors, optronics, catalysis, fingerprint recovery.

Shipping: Ready to ship in 5 business days

Storage conditions: +4 °C

Packaging : 10 mL

Quality Control



UV/Vis spectra of sulfur doped
carbon quantum dots