

Graphene quantum dots, green fluorescence

Cat: NM000420

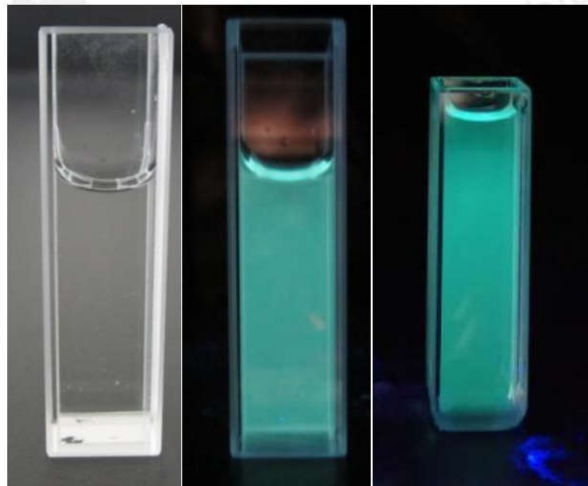
Specification: 50ml/100ml

Storage: Sealed, avoid light, and keep at 4°C. Expiry date: Six months before unsealing.

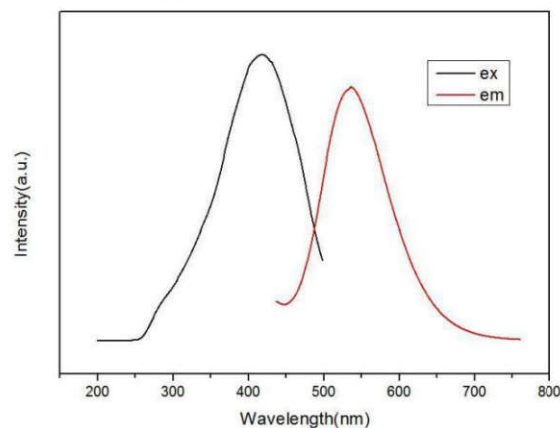
Product Introduction:

Product name	Graphene quantum dots green fluorescence)
Purity	~90%
Concentration	1mg/ml
Solvent	(Water, containing a little DMF or EtOH, containing a little DMF)
Transverse diameter	<10nm (TEM)
at.%	~5%

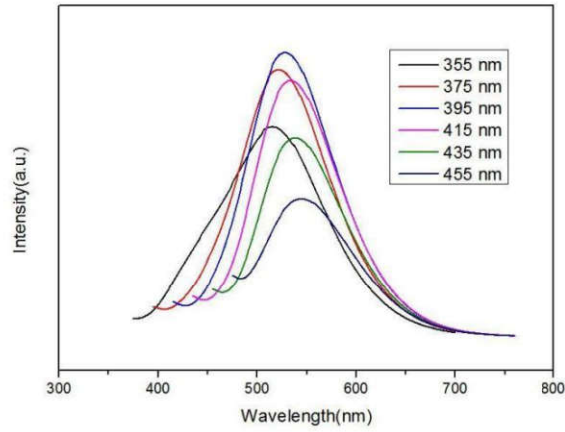
Representation Test Diagram:



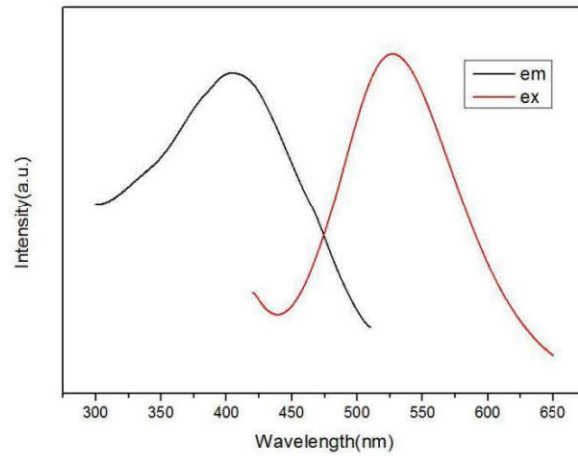
Photos of Graphene quantum dots in water under natural light (left)、Graphene quantum dots in water under UV light at 365 nm (center) and Graphene quantum dots in EtOH under UV light at 365 nm (right)



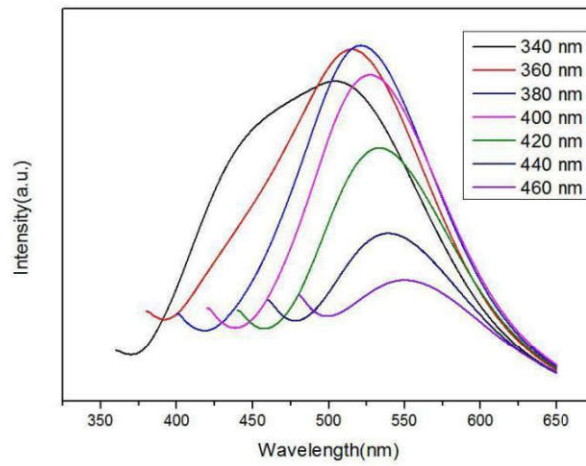
PL spectrum of Graphene quantum dots in water



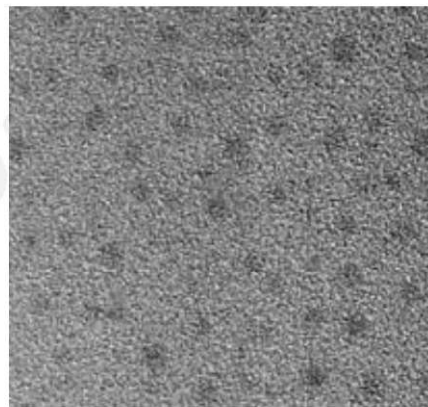
PL spectrum of Graphene quantum dots in water



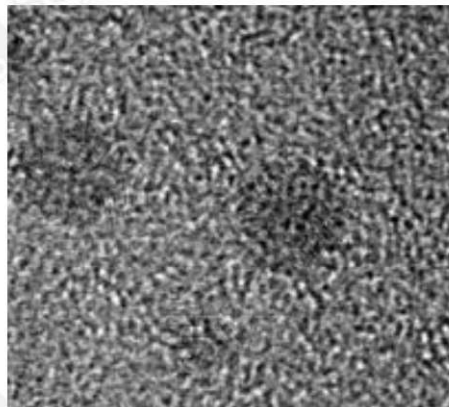
PL spectrum of Graphene quantum dots in EtOH



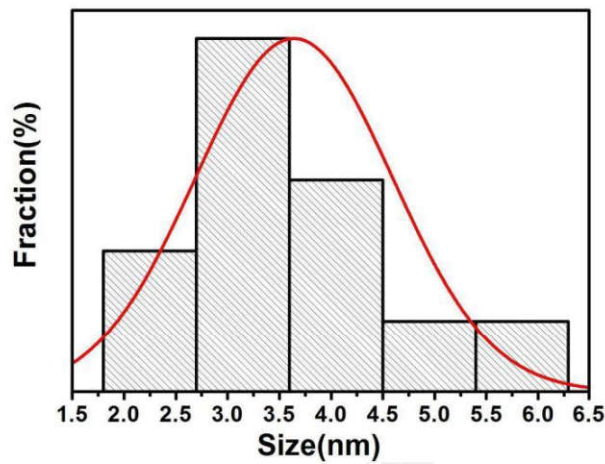
PL spectrum of Graphene quantum dots in EtOH



TEM images of Graphene quantum dots in water (20nm)



TEM images of Graphene quantum dots in water (10nm)

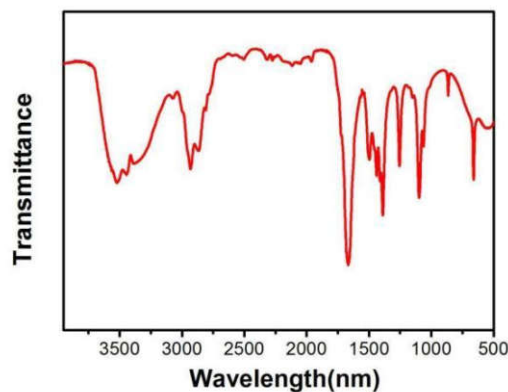


Size distribution of Graphene quantum dots in water

	Wt%	At%
C	91.63	93.18
N	4.02	3.51
O	4.33	3.30

EDS analysis of Graphene quantum dots in water

(Note: This data is a single measurement data, allowing floating between different batches.)



FTIR spectrum of Graphene quantum dots

Application:

Composite materials, bio-labeling, optoelectronic devices, fluorescence materials etc.

Note:

1. This product is for scientific research use only. Do not use for medical, clinical diagnostic or therapeutic, food or cosmetic purposes. Do not store in ordinary residential areas.
2. For your safety and health, please wear a laboratory coat and wear disposable gloves and masks to operate.