

## Certificate of Analysis

Date of Testing: 2023-08-03 16:41:31  
Date of Next Testing: 2026-08-02 16:41:31  
Product Name: **Graphene quantum dots**  
CAS Number: 7440-44-0  
Specifications & Purity: blue luminescent, powder  
Lot #: G2318789  
SKU #: **G433456**  
**Analysis:** **245772**  
Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Thickness	0.4-0.8 (nm)	0.60000 nm
Sheet diameter	3-13 (nm)	9.00000 nm
Number of layers	1-3	2.00000
Emission Maximum(0.1 mg/mL in water)	435-455 (nm)	450.00000 nm
Appearance(G433456)	Faint Brown to Dark Brown Powder	Faint Brown to Dark Brown Powder



John Su  
QA & QC Manager