

## Certificate of Analysis

Date of Testing: 2024-08-06 14:11:56  
Date of Next Testing: 2025-02-02 14:11:56  
Product Name: **carboxylated graphene(small size)**  
CAS Number: 7782-42-5  
Specifications & Purity: Diameter: 1-5  $\mu\text{m}$  Single layer ratio >80% Carboxyl ratio: 5.0 wt%  
Lot #: A2419372  
SKU #: **G196557**  
Version: **0**  
Analysis #: **395865**  
Storage Temperature: Store at 2-8°C, Protected from light

Parameter	Limit Values	Result
Carboxylation	4.5-5.5 (wt%)	4.80 wt%
Single layer ratio	80-100 (%)	81.00 %
Thickness	0.8-1.2 (nm)	0.93 nm
Diameter	1-5 ( $\mu\text{m}$ )	1.50 $\mu\text{m}$



John Su  
QA & QC Manager