

## Certificate of Analysis

Date of Testing: 2022-11-07 11:52:46  
Date of Next Testing: 2025-11-06 11:52:46  
Product Name: **Graphene**  
CAS Number: 1034343-98-0  
Specifications & Purity: High purity grade , > 98 %  
Lot #: J2227356  
SKU #: **G302114**  
**Analysis:** **152366**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Thickness	1-3 (nm)	2.10 nm
Layers	< 3	2.00
Purity	98-100 (%)	98.00 %
Specific Surface Area	100-200 (m <sup>2</sup> /g)	153.00 m <sup>2</sup> /g
Scale	> 50 (μm)	60.00000 μm
Electrical conductivity	1000-1500 (S/m)	1240.00000 S/m
Tap density	5-10 (mg/ml)	8.70000 mg/ml
Appearance(G302114)	Black powder	black powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager