

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-22 13:09:44

Date of Next Testing: 2026-02-21 13:09:44

Product Name: **Graphene**

CAS Number: 1034343-98-0

Specifications & Purity: $\geq 99\%$

Lot #: B2314252

SKU #: **G302113**

Version: **3**

Analysis #: **158217**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Thickness	1-3 (nm)	2.30 nm
Scale	> 50 (μm)	56.00000 μm
Tap density (BET)	100-200(m^2/g)	157.00000 m^2/g
Purity(TGA)	99-100 (%)	99.00000 %
Tap density	5-10 (mg/ml)	8.00000 mg/ml
Electrical conductivity	1000-1500 (S/m)	1200.00000 S/m
Layers	< 3	2.00000
Appearance(G302113)	Black powder or particle	Black powder or particle
X-Ray Diffraction	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager