

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-15 10:27:20
Date of Next Testing: 2027-09-14 10:27:20
Product Name: **Carbon nanotube, multi-walled**
CAS Number: 308068-56-6
Specifications & Purity:
Lot #: 12312109
SKU #: **C493324**
Analysis: 276956

Parameter	Limit Values	Result
Purity(TGA)	95-100 (%)	99.00000%
Outer Diameter	8-15 (nm)	13.00 nm
Length	0.5-2 (μm)	0.78 μm
Specific surface area (BET)	> 160 (m^2/g)	182.00 m^2/g
Ash	< 1.5 (%)	1.30%
-COOH Content	2.45-2.6 (%)	2.58000%
Appearance(Black powder)	pass	Pass



John Su
QA & QC Manager