

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-20 16:44:55

Date of Next Testing: 2027-09-19 16:44:55

Product Name: **Carbon nanotube, multi-walled**

CAS Number: 308068-56-6

Specifications & Purity: -COOH Functionalized, >95%, OD:20-30nm, Length:10-30µm

Lot #: I2209393

SKU # **C139835**

Analysis: **123616**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Surface Area	≥110 (m ² /g)	124.00 m ² /g
Purity	95-100 (%)	98.20 %
Length	10-30 (µm)	21.00 µm
Outer Diameter	20-30 (nm)	25.00 nm
COOH Content	1.2-1.3 (%)	1.23 %
Ash	0-1.5 (%)	1.45 %
Exterior color	Black	Black

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

John Su
QA & QC Manager