

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-08 17:20:52  
Date of Next Testing: 2027-09-07 17:20:52  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: 12304482  
SKU #: **S493293**  
Analysis: **263319**

Parameter	Limit Values	Result
Purity	>98 (%)	98.50 %
Outer Diameter	4-8 (nm)	5.20 nm
Length	0.5-2 ( $\mu\text{m}$ )	0.90 $\mu\text{m}$
Specific Surface Area	380-550 ( $\text{m}^2/\text{g}$ )	411.00 $\text{m}^2/\text{g}$
Ash	<2 (%)	0.95 %



John Su  
QA & QC Manager