

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-27 12:47:50  
Date of Next Testing: 2027-03-26 12:47:50  
Product Name: **Carbon Nanotube Bundled Multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  $\geq 98\%$ , Outer Diameter: 10-20nm, Length: 0.5-2um  
Lot #: C2322488  
SKU #: **C369044**  
Analysis: **189274**

Parameter	Limit Values	Result
Carbonaceous Purity(TPO Method)	98-100 (%)	98.10%
Length	0.5-2 ( $\mu\text{m}$ )	1.20 $\mu\text{m}$
Outer Diameter	10-20 (nm)	15.00 nm
Ash	0-1.5 (%)	0.80%
Specific Surface Area	120-180 ( $\text{m}^2/\text{g}$ )	150.00 $\text{m}^2/\text{g}$



John Su  
QA & QC Manager