

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-01 09:31:14  
Date of Next Testing: 2027-10-31 09:31:14  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: J2320050  
SKU #: **C493463**  
**Analysis: 291351**

Parameter	Limit Values	Result
Length	5-20 ( $\mu\text{m}$ )	13.50 $\mu\text{m}$
Outer Diameter	10-20 (nm)	15.00 nm
Purity(TGA)	95-100 (%)	95.00000 %
Specific Surface Area	>120 (m <sup>2</sup> /g)	123.00 m <sup>2</sup> /g
Appearance(Black powder)	pass	Pass



John Su  
QA & QC Manager