

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-01 14:05:50  
Date of Next Testing: 2027-10-31 14:05:50  
Product Name: **Carboxylated single-walled carbon nanotubes**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: J2320307  
SKU #: **C493339**  
Analysis: **291288**

Parameter	Limit Values	Result
Purity	90-100 (%)	90.36 %
Diameter	1-2 (nm)	1.36 nm
Length	5-30 ( $\mu\text{m}$ )	6.20 $\mu\text{m}$
Specific Surface Area	>320 ( $\text{m}^2/\text{g}$ )	320.30 $\text{m}^2/\text{g}$
Ash	<5 (%)	2.73 %
-COOH Content	2.63-2.83 (%)	2.63400 %



John Su  
QA & QC Manager