

## Certificate of Analysis

Date of Testing: 2023-09-19 14:39:55  
Date of Next Testing: 2027-09-18 14:39:55  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: 12313023  
SKU #: **C493463**  
Analysis: **279346**

Parameter	Limit Values	Result
Ash	0-5 (%)	5.00 %
Specific Surface Area	>80 (m <sup>2</sup> /g)	80.20 m <sup>2</sup> /g
Length	10-30 (μm)	30.00 μm
Outer Diameter	20-40 (nm)	40.00 nm
Purity(TGA)	95-100 (%)	95.00000 %
Appearance(Black powder)	pass	Pass



John Su  
QA & QC Manager