

## Certificate of Analysis

Date of Testing: 2023-09-15 17:12:45  
Date of Next Testing: 2027-09-14 17:12:45  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: 12313014  
SKU #: **C493463**  
Analysis: **276940**

Parameter	Limit Values	Result
Ash	0-5 (%)	4.00 %
Specific Surface Area	>60 (m <sup>2</sup> /g)	70.00 m <sup>2</sup> /g
Length	<10 (μm)	9.50 μm
Outer Diameter	30-80 (nm)	80.00 nm
Purity(TGA)	95-100 (%)	95.20000 %
Appearance(Black powder)	pass	Pass



John Su  
QA & QC Manager