

## Certificate of Analysis

Date of Testing: 2023-09-19 16:42:25  
Date of Next Testing: 2027-09-18 16:42:25  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: 12313018  
SKU #: **C493463**  
Analysis: **279037**

Parameter	Limit Values	Result
Ash	0-3 (%)	2.10 %
Specific Surface Area	140-160 (m <sup>2</sup> /g)	153.30 m <sup>2</sup> /g
Length	20-100 (μm)	72.00 μm
Outer Diameter	10-20 (nm)	16.20 nm
Purity(TGA)	95-100 (%)	95.00000 %
Appearance(Black powder)	pass	Pass



John Su  
QA & QC Manager