

## Certificate of Analysis

Date of Testing: 2023-09-06 15:38:46  
Date of Next Testing: 2027-09-05 15:38:46  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: H2325372  
SKU #: **C493463**  
Analysis: **263355**

Parameter	Limit Values	Result
Ash	0-3 (%)	0.36 %
Specific Surface Area	220-300 (m <sup>2</sup> /g)	226.30 m <sup>2</sup> /g
Length	10-30 (μm)	12.50 μm
Outer Diameter	5-15 (nm)	6.20 nm
Purity(TGA)	95-100 (%)	95.60000 %
Appearance(Black powder)	pass	Pass



John Su  
QA & QC Manager