

## Certificate of Analysis

Date of Testing: 2022-11-22 18:23:12  
Date of Next Testing: 2027-11-21 18:23:12  
Product Name: **Carbon nanotube, multi-walled**  
CAS Number: 308068-56-6  
Specifications & Purity: -OH Functionalized, >95%, OD: 10-20nm, Length: 10-30µm  
Lot #: K2215738  
SKU #: **C139827**  
Analysis: **122179**

Parameter	Limit Values	Result
Purity	95-100 (%)	98.30 %
Length	10-30 (µm)	20.00 µm
Ash	0-1.5 (%)	0.75 %
Outer Diameter	10-20 (nm)	15.00 nm
Specific Surface Area	≥150 (m <sup>2</sup> /g)	150.00 m <sup>2</sup> /g
OH Content	3-3.1%	3.01 %
Electric Conductivity	≥100000 (µS/cm)	100500.00 µS/cm
Exterior color	Black	Black



John Su  
QA & QC Manager