

## Certificate of Analysis

Date of Testing: 2025-01-22 11:14:31  
Date of Next Testing: 2029-01-21 11:14:31  
Product Name: **Nitrogen-doped multi-walled carbon nanotubes**  
CAS Number:  
Specifications & Purity:  $\geq 95\%$ , Outer diameter: 30-50nm, length: 10-30  $\mu\text{m}$   
Lot #: A2516110  
SKU #: **C752296**  
Version: **1**  
Analysis #: **460036**

Parameter	Limit Values	Result
Purity(TGA)	95-100 (%)	98.90000 %
Nitrogen content	> 2.5 (%)	2.60000 %
Specific Surface Area	> 78.9 (m <sup>2</sup> /g)	79.00 m <sup>2</sup> /g
Outside diameter30-50(nm)	pass	Pass
Length 10-30( $\mu\text{m}$ )	pass	Pass



John Su  
QA & QC Manager