

## Certificate of Analysis

Date of Testing: 2025-01-22 11:15:06  
Date of Next Testing: 2029-01-21 11:15:06  
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 #: A2516111  
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                    |



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