

## Certificate of Analysis

Date of Testing: 2022-08-10 19:06:23

Date of Next Testing: 2026-08-09 19:06:23

Product Name: **Carbon nanotube, short multi-walled**

CAS Number: 308068-56-6

Specifications & Purity:  $\geq 95\%$ , OD: 30-50nm, Length: 0.5 – 2um

Lot #: H2205027

SKU #: **C140998**

Analysis: **114144**

| Parameter             | Limit Values                   | Result                   |
|-----------------------|--------------------------------|--------------------------|
| Purity                | 95-100 (%)                     | 98.00%                   |
| Ash                   | 0-1.5 (%)                      | 1.50%                    |
| Specific Surface Area | $\geq 100$ (m <sup>2</sup> /g) | 100.00 m <sup>2</sup> /g |
| Outer Diameter        | 30-50 (nm)                     | 40.60 nm                 |
| Length                | 0.5-2 (μm)                     | 0.92 μm                  |
| Appearance (C140998)  | black powder                   | black powder             |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager