

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-30 16:25:56
Date of Next Testing: 2027-08-29 16:25:56
Product Name: **Carbon nanotube, multi-walled**
CAS Number: 308068-56-6
Specifications & Purity:
Lot #: H2328142
SKU #: **C493326**
Analysis: **269971**

| Parameter | Limit Values | Result |
|-----------------------------|-------------------------|-------------------------|
| Outer Diameter | 30-80 (nm) | 74.00 nm |
| Purity(TGA) | 99.9-100 (%) | 99.90000 % |
| Length | <10 (µm) | 9.10 µm |
| Specific surface area (BET) | >50 (m ² /g) | 52.00 m ² /g |
| Ash | < 0.1 (%) | 0.09 % |
| -COOH Content | 0.20-0.3 (%) | 0.25000 % |
| Appearance(Black powder) | pass | Pass |



John Su
QA & QC Manager