

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-13 15:14:46

Date of Next Testing: 2027-11-12 15:14:46

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

CAS Number: 308068-56-6

Specifications & Purity:

Lot #: K2306188

SKU #: **H493291**

Version: **1**

**Analysis #:** **295056**

Storage Temperature: Room temperature

| Parameter             | Limit Values                | Result                      |
|-----------------------|-----------------------------|-----------------------------|
| Purity                | >98 (%)                     | 98.50000 %                  |
| -OH Content           | 5.3-5.7 (wt %)              | 5.50000 wt%                 |
| Outer Diameter        | 5-15 (nm)                   | 7.78000 nm                  |
| Length                | 10-30 (μm)                  | 16.21000 μm                 |
| Specific Surface Area | 220-300 (m <sup>2</sup> /g) | 250.00000 m <sup>2</sup> /g |
| Ash                   | <1.5 (%)                    | 1.00000 %                   |
| Color(Black)          | pass                        | Pass                        |



John Su  
QA & QC Manager