

## Certificate of Analysis

Date of Testing: 2023-09-14 09:12:41  
Date of Next Testing: 2027-09-13 09:12:41  
Product Name: **Hydroxylated single-walled carbon nanotubes**  
CAS Number: 308068-56-6  
Specifications & Purity:  
Lot #: 12312210  
SKU #: **C493362**  
Analysis: **276398**

Parameter	Limit Values	Result
Purity(TGA)	>60 (%)	61.00000 %
Outer Diameter	1-2 (nm)	1.90 nm
Length	5-30 ( $\mu\text{m}$ )	29.00 $\mu\text{m}$
-OH Content	3.8-4.1 (%)	3.95000 %
Specific Surface Area	>407 ( $\text{m}^2/\text{g}$ )	408.00 $\text{m}^2/\text{g}$



John Su  
QA & QC Manager