

# Certificate of Analysis

## **-COOH Functionalized multi-walled nanotube (MWNTs-COOH)**

Content of MWNTs: 95+%  
Outside diameter: 20-30 nm  
Inside diameter: 5-10 nm  
Length: 10-30  $\mu\text{m}$

Stock#: 1270YJF

<b>Components</b>	<b>Contents (%)</b>
Multi-walled nanotubes	> 95
-COOH	1.17-1.29
C	Bal.
Cl	0.45
Fe	0.23
Ni	0.93

Analysis Methods: X-ray Photoelectron Spectroscopy  
Energy Dispersive X-ray Spectroscopy

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