

# Certificate of Analysis

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

Content of MWNTs: 95+%  
Outside diameter: 30-50 nm  
Inside diameter: 5-15 nm  
Length: 10-20  $\mu\text{m}$

Stock#: 1271YJF

<b>Components</b>	<b>Contents (%)</b>
Multi-walled nanotubes	> 95
-COOH	1-6
Mole fraction of surface carbon atoms functionalized with -COOH	8-10
C	Bal.
Cl	0.20
Fe	0.55
Ni	1.86
S	0.02

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

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