



## Certificate of Analysis

### Short multi-walled carbon nanotubes, -COOH functionalized

Content of MWNTs (excluding -COOH): 98+%

Outside diameter: 30-50 nm

Inside diameter: 5-12 nm

Length: 0.5-2  $\mu$ m

Stock#: 1259YJF

Components	Contents (%)
-COOH	0.69-0.77
Cl	< 0.3
Fe	< 0.6
Ni	< 1.0
S	0.02

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

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