



## Certificate of Analysis

### Graphitized multi-walled carbon nanotube, –COOH functionalized

Content of MWNTs (metal basis, excluding –COOH): 99.9%

Content of –COOH: 0.95-1.05%

Outside diameter: 10-20 nm

Inside diameter: 5-10 nm

Length: 5-30  $\mu\text{m}$

Stock#: 1242YJF

Elements	Content (ppm)	Elements	Content (ppm)
Al	17.4	K	20.9
Ba	21.4	Mg	51.5
Ca	418.2	Mn	2.56
Cr	2.93	Na	27.8
Cu	1.87	Ni	11.7
Fe	134	Pb	2.4

Analysis Methods: inductively coupled plasma (ICP)

X-ray photoelectron spectroscopy (XPS)

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