Technical Data Sheet

ACS Material Carbon Nanotubes, Multi-walled, NH2 Functionalized (MWCNTs-NH2)

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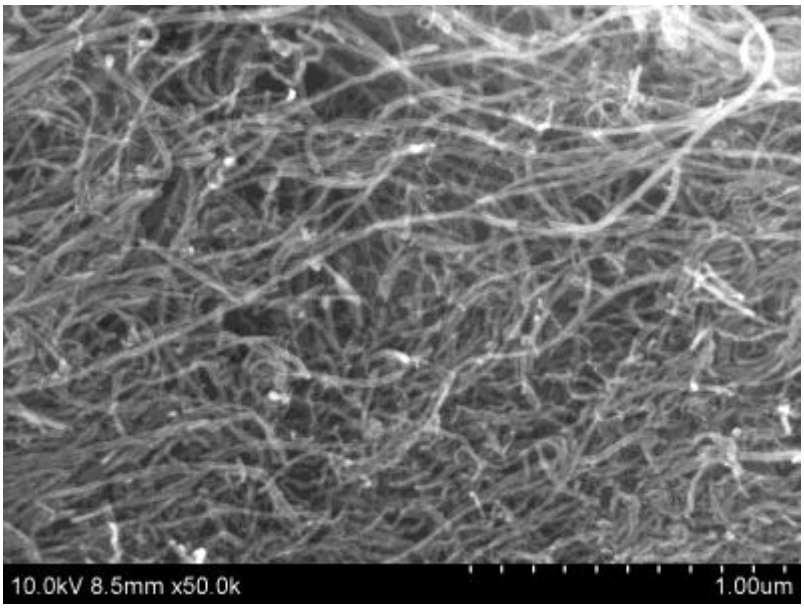
Revision: 042117

1. Preparation Method

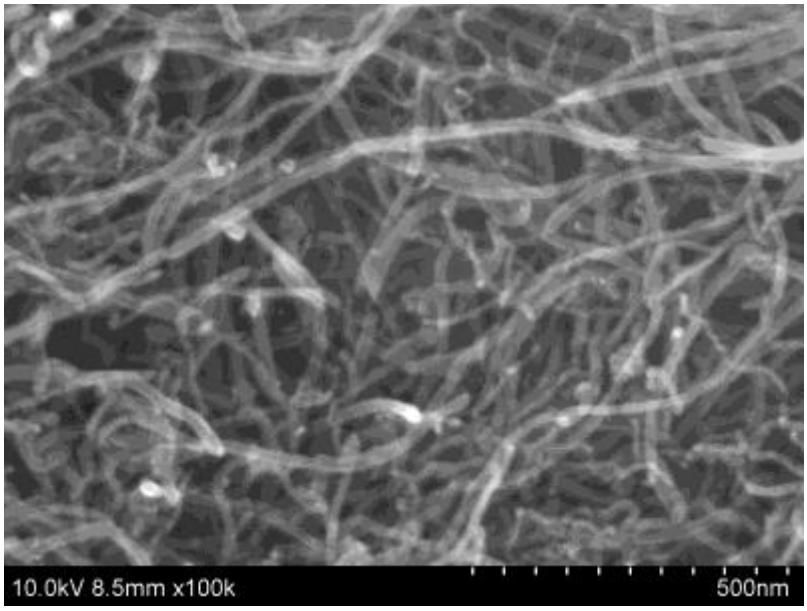
Chemical Vapor Deposition (CVD) Method

2. Characterizations

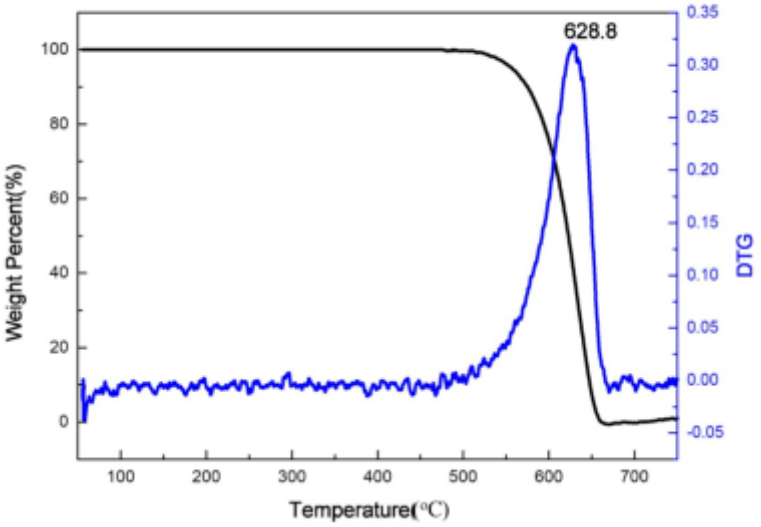
Purity:	>95%
-NH_2 Content:	0.45wt%
Color:	Black
Outer Diameter:	10-20 nm
Inner Diameter:	3-5 nm
Length:	~50 um
Special Surface Area:	>233m^2/g
Tap Density:	0.27 g/cm^3
Electric Conductivity:	>100s/cm



Typical SEM Image of ACS Material Carbon Nanotubes, Multi-walled, NH2 Functionalized



Typical TEM Image of ACS Material Carbon Nanotubes, Multi-walled, NH2 Functionalized



TGA Analysis of ACS Material Carbon Nanotubes, Multi-walled, NH2 Functionalized

Components	Contents (%)
C	95.74
N	0.53
H	0.15

Element Analysis of ACS Material Carbon Nanotubes, Multi-walled, NH2 Functionalized

3. Application Fields

1) Additives in polymers
2) Catalysts
3) Lithium-battery anodes
4) Nanotube composites (by filling or coating)
5) Drug delivery

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