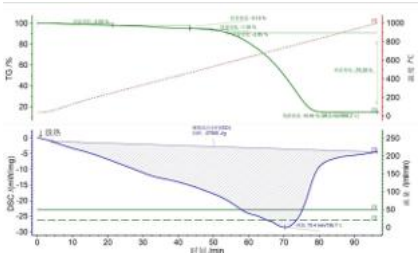
Certificate of Analysis

High Purity Single-walled Carbon Nanotubes

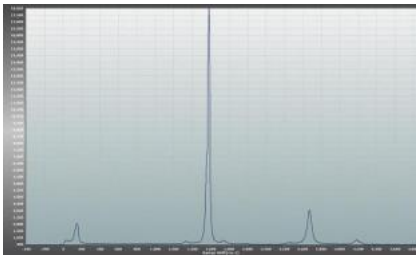
Model: TXHP
Batch number: TXHP202604-SL-15
Production date:20260415
Storage : 36 months

Ingredient

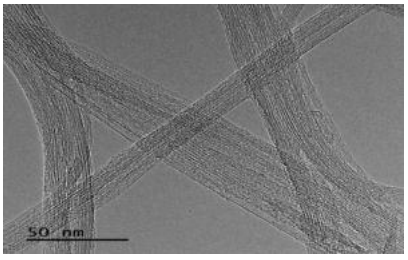
Parameters	Units	Specifications	Actual Value	Method of Evaluation
Appearance	-	Black powder	-	Visual inspection
SWCNT Content	%	99±0.5	99.33	TGA
SWCNT Length	μm	>100	122	SEM
Specific Surface Area	m^2/g	600-1200	1027	Nitrogen Adsorption
SWCNT Outer Diameter	nm	1.6±0.5	1.61	Optical absorption: ISO/TS 10868:2017 (E)
G/D Ratio	-	>50	76	Raman (532nm)
Metal Impurities (Cr/Cu/Fe/Ni/Zn)	ppm	(<350/<20/<5000/ <350/<20)	(0/0/3790/0/0)	ICP-AES
Moisture	%	<5	2.53	DHS20-A



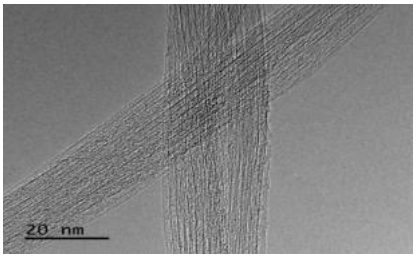
TGA



Raman



SEM



SEM