

Specification Sheet

Biotin Silver Nanoparticles

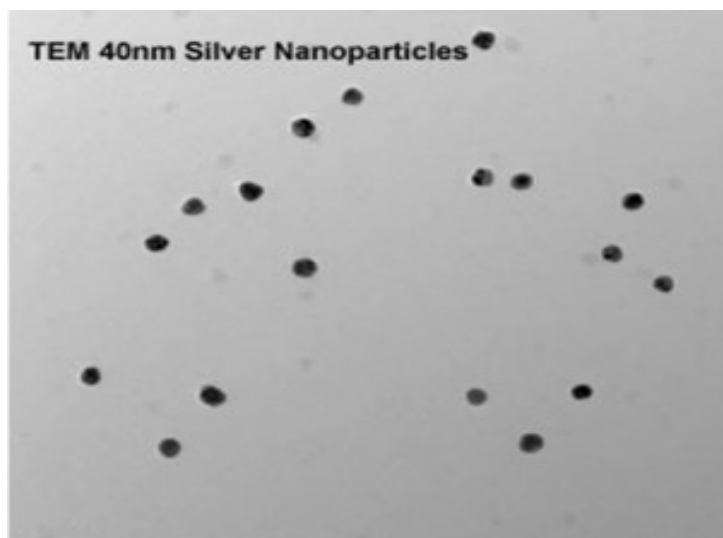
(35nm, 1 mg/ml (125OD) in ddH₂O)

Stock No: NS6130-12-000416, CAS: 58-85-5

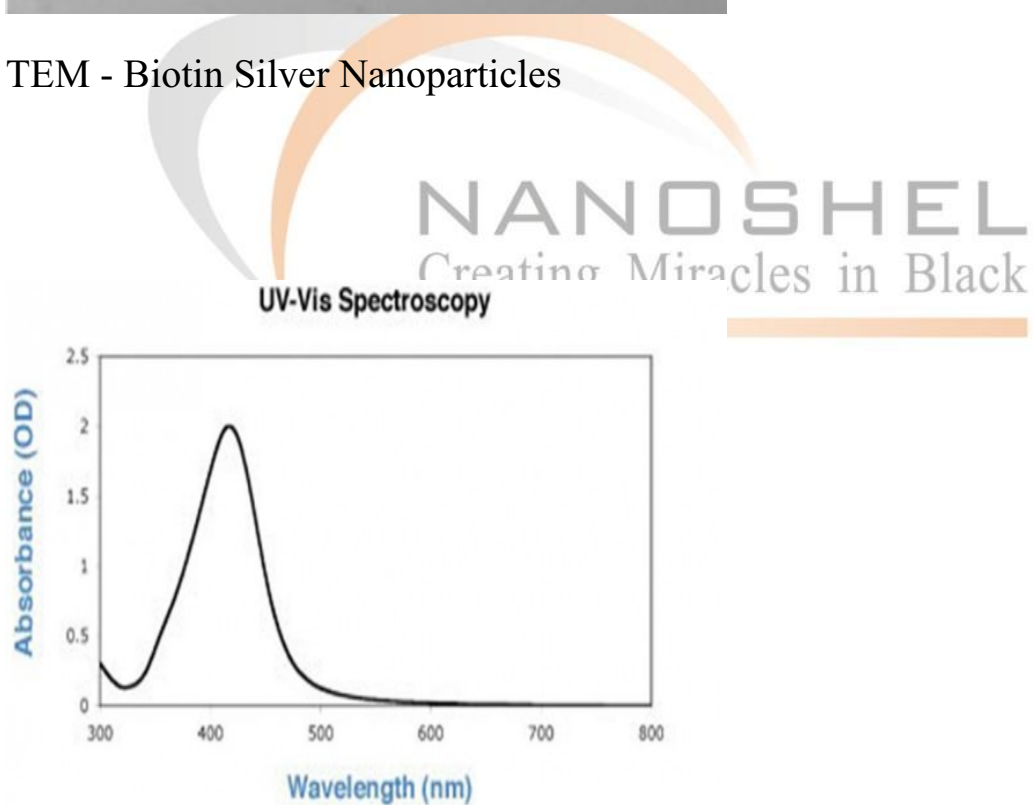
Product	:	Biotin Silver Nanoparticles
Stock No	:	NS6130-12-000416
CAS	:	58-85-5
Purity	:	>99.9%
Silver nanoparticles core size	:	35nm (+/- 3nm)
Size Dispersity	:	CV < 18%
Surface composition	:	Biotin-PEG10000-SH/methoxy-PEG-SH
Biotin surface density	:	0.5/nm ²
Adsorption max	:	410-425nm
Concentration	:	1 mg/ml
Particles per ml	:	~2.8E+12
Volume	:	1 ml in ddH ₂ O
Size Dispersity (nm)	:	15%
Surface Volume Ratio	:	0.15
Particle mass (g)	:	3.52E-16
Molar Mass (g/mol)	:	2.12E + 08
Molar Concentration	:	4.74E – 07
Main Inspect Verifier	:	Manager QC

Note: Product Specification are subject to amendment and may change over time

Characterization of Biotin Silver Nanoparticles



TEM - Biotin Silver Nanoparticles



UV Spectroscopy - Biotin Silver Nanoparticles