

NANOPARTz™

The gold nanoparticle for nanotechnology

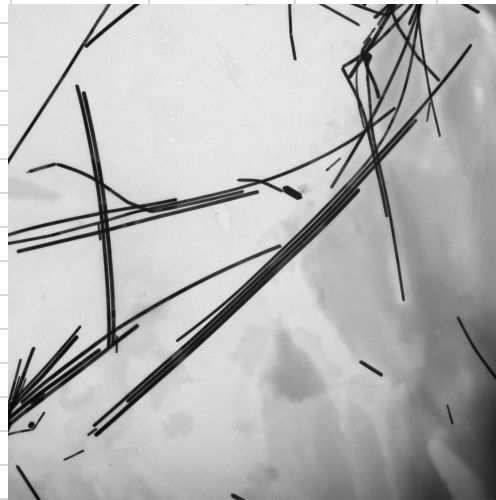
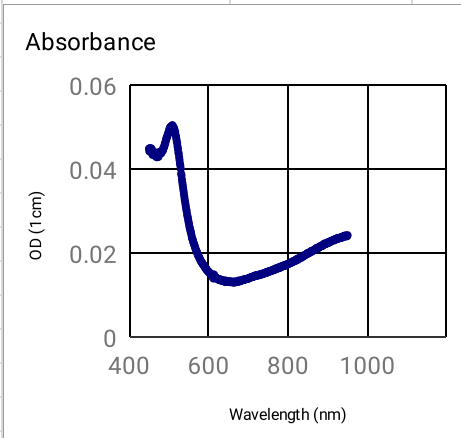
Certificate of Analysis

Product Family	Nanopartz Gold Nanowires
Product Number	A14-3000-CTAB-DIH-1-5
Lot #	14Y27-7926
Appearance	Slight off white color
Form	White precipitate colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	14Y27

SPR Peak	nm	measured	UV/VIS	510
SPR Abs	OD	measured	UV/VIS	0.05
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	75
Length	nm	measured	TEM	3000
Aspect Ratio		calc		40.0
Concentration	nps/mL	calc		2.0E+08
Wt. conc.	mg/mL	calc		0.050
Concentration	ppm	calc		50
Wt %	%	calc		0.0050%
Molarity	nM	calc		3.29E-04
Molar Ext.	M-1cm-1	calc		1.5E+11
CTAB	mM	measured		25
Volume	mL	measured		5

Date	8/28/2019
Exp Date	2/24/2020

Alex Schoen, Manager
Quality Control



14Y27_599
C01: 0.002785 um/gpx
1:02:50 PM 8/28/2018

500 nm
HW510.0KV
Direct Mag: 23000x