

# NANOPARTZ™

The gold nanoparticle for nanotechnology

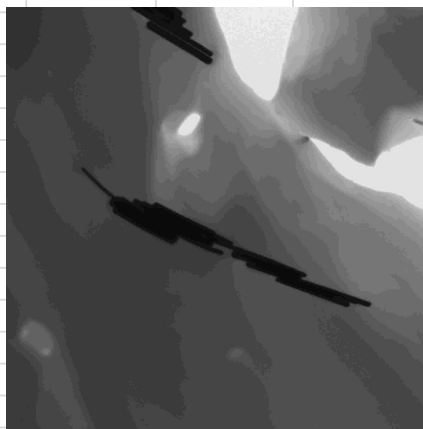
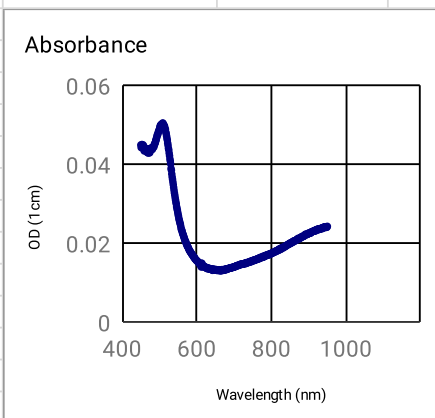
## Certificate of Analysis

Product Family	Nanopartz Gold Nanowires
Product Number	A14-2000-CTAB-DIH-1-5
Lot #	F3252-7869
Appearance	Slight off white color
Form	White precipitate colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	F3252-2

SPR Peak	nm	measured	UV/VIS	512
SPR Abs	OD	measured	UV/VIS	0.055
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	75
Length	nm	measured	TEM	2000
Aspect Ratio		calc		26.7
Concentration	nps/mL	calc		3.3E+08
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		5.45E-04
Molar Ext.	M-1cm-1	calc		1.0E+11
CTAB	mM	measured		50
Volume	mL	measured		5

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

Alex Schoen, Manager  
Quality Control



F3252-2.jpg  
Cnl: 0.002065 um/pix  
3-27-12 p 02/23/15

510 nm  
100-60.0kV  
Direct Mag: 6600x  
Phillips CM100