

# NANOPARTZ™

The gold nanoparticle for nanotechnology

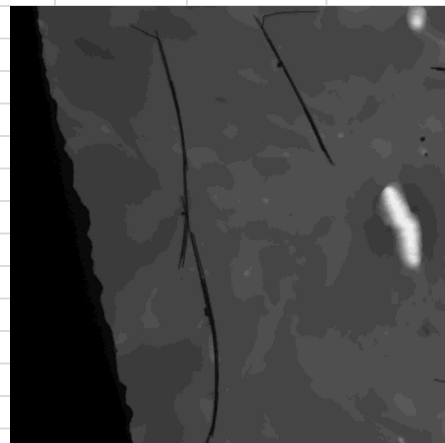
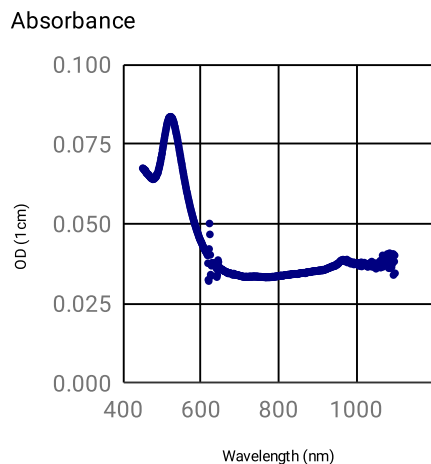
## Certificate of Analysis

Product Family	Nanopartz Gold Nanowires
Product Number	A14-10000-CTAB-DIH-1-5
Lot #	14M69-13619
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	F3280

SPR Peak	nm	measured	UV/VIS	550
SPR Abs	OD	measured	UV/VIS	0.07
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	75
Length	nm	measured	TEM	10000
Aspect Ratio		calc		133.3
Concentration	nps/mL	calc		8.2E+07
Wt. conc.	mg/mL	calc		0.070
Concentration	ppm	calc		70
Wt %	%	calc		0.0070%
Molarity	nM	calc		1.37E-04
Molar Ext.	M-1cm-1	calc		5.1E+11
CTAB	mM	measured		25
Volume	mL	measured		5

Date	1/18/2024
Exp Date	7/16/2024

Alex Schoen, Manager  
Quality Control



F3280.jpg  
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2 microns  
HV=80.0kV  
Direct Mag: 2200x  
Philips CM100