

# NANOPARTz™

The gold nanoparticle for nanotechnology

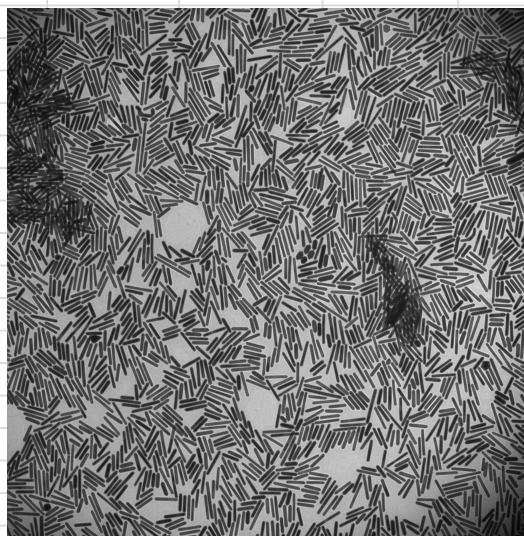
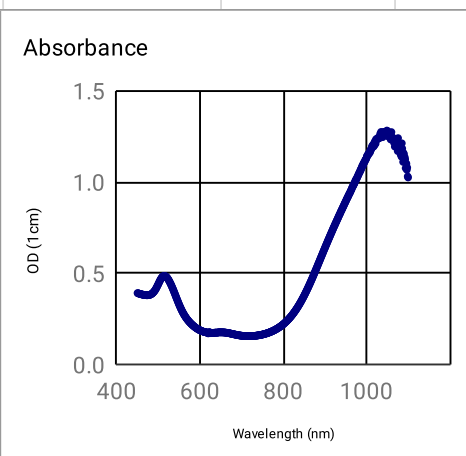
## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods
Product Number	A12-40-1064-CTAB-DIH-1-5
Lot #	12L480-13111
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	12Y260

SPR Peak	nm	measured	UV/VIS	1056
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	515
LSPR Abs	OD	measured	UV/VIS	0.5
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	32
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	208
Aspect Ratio		calc		5.2
Concentration	nps/mL	calc		1.3E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.02
Molar Ext.	M-1cm-1	calc		5.7E+10
CTAB	mM	measured		3
Volume	mL	measured		5

Date	9/15/2023
Exp Date	3/13/2024

Alex Schoen, Manager Quality Control



12Y260.jpg  
 Cal: 0.002785 um/pix  
 1:33:59 PM 2/2/2018

500 nm  
 214x100.0um  
 Direct Mag: 23000x  
 ADF Camera System