

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-40-980-CTAB-DIH-1-25			
Lot #	12N640-13197			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12Y277			
SPR Peak	nm	measured	UV/VIS	988
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	515
LSPR Abs	OD	measured	UV/VIS	0.2
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	36
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	180
Aspect Ratio		calc		4.5
Concentration	mps/mL	calc		1.4E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.02
Molar Ext.	M-1cm-1	calc		4.8E+10
CTAB	mM	measured		3
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

