

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-40-808-CTAB-DIH-1-25			
Lot #	12M586-13258			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	RPB168			
SPR Peak	nm	measured	UV/VIS	815
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	521
LSPR Abs	OD	measured	UV/VIS	0.5
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	134
Aspect Ratio		calc		3.4
Concentration	nps/mL	calc		2.1E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.034
Molar Ext.	M-1cm-1	calc		3.5E+10
CTAB	mM	measured		5
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

