

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-550-CTAB-DIH-1-25			
Lot #	12M594-12827			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G75			
SPR Peak	nm	measured	UV/VIS	565
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	535
LSPR Abs	OD	measured	UV/VIS	1
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	31
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	34
Aspect Ratio		calc		1.4
Concentration	nps/mL	calc		2.5E+11
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.412
Molar Ext.	M-1cm-1	calc		2.9E+09
CTAB	mM	measured		5
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

