

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods
Product Number	A12-50-700-CTAB-DIH-1-25
Lot #	RPB124-12571
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	12G146

SPR Peak	nm	measured	UV/VIS	694
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	544
LSPR Abs	OD	measured	UV/VIS	0.9
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	34
Diameter	nm	measured	TEM	50
Length	nm	measured	TEM	110
Aspect Ratio		calc		2.2
Concentration	np/mL	calc		1.6E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.03
Molar Ext.	M-1cm-1	calc		4.2E+10
CTAB	mM	measured		5
Volume	mL	measure		25

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

Alex Schoen, Manager
Quality Control

