

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family		Nanopartz Gold Nanorods		
Product Number		A12-70-550-CTAB-DIH-1-25		
Lot #		12M552-13125		
Form		Gold Colloid		
Capping Agent		CTAB		
Solution		18MEG DI Water		
Source		12G147-3		
SPR Peak	nm	measured	UV/VIS	570
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	547
LSPR Abs	OD	measured	UV/VIS	1.25
pH		measured	Expt.	6
Zeta Potential	mV	measured	DLS	37
Diameter	nm	measured	TEM	70
Length	nm	measured	TEM	100
Aspect Ratio		calc		1.4
Concentration	nps/mL	calc		9.7E+09
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.016
Molar Ext.	M-1cm-1	calc		6.8E+10
CTAB	mM	measured		5
Volume	mL	measured		25
Date				7/8/2023
Exp Date				1/4/2024

Alex Schoen, Manager Quality Control

