

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family		Nanopartz Gold Nanorods		
Product Number		A12-40-650-CTAB-DIH-1-25		
Lot #		12M567-13024		
Form		Gold Colloid		
Capping Agent		CTAB		
Solution		18MEG DI Water		
Source		12G84		
SPR Peak	nm	measured	UV/VIS	652
SPR Abs	OD	measured	UV/VIS	1
LSPR Peak	nm	measured	UV/VIS	525
LSPR Abs	OD	measured	UV/VIS	0.75
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	80
Aspect Ratio		calc		2.0
Concentration	nps/mL	calc		3.1E+10
Wt. conc.	mg/mL	calc		0.050
Concentration	ppm	calc		50
Wt %	%	calc		0.0050%
Molarity	nM	calc		0.052
Molar Ext.	M-1cm-1	calc		1.9E+10
CTAB	mM	measured		3
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Chris Sievers, Manager
Quality Control

