

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-40-850-CTAB-DIH-1-25			
Lot #	12M583-13250			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G122			
SPR Peak	nm	measured	UV/VIS	840
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	517
LSPR Abs	OD	measured	UV/VIS	0.6
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	148
Aspect Ratio		calc		3.7
Concentration	nps/mL	calc		1.7E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.028
Molar Ext.	M-1cm-1	calc		3.9E+10
CTAB	mM	measured		5
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

