

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-950-CTAB-DIH-1-25			
Lot #	N1943			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G120			

SPR Peak	nm	measured	UV/VIS	946
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	512
LSPR Abs	OD	measured	UV/VIS	0.25
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	102
Aspect Ratio		calc		4.1
Concentration	nps/mL	calc		6.8E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.113
Molar Ext.	M-1cm-1	calc		1.1E+10
CTAB	mM	measured		5
Volume	mL	measured		25

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

Alex Schoen, Manager Quality Control

