

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-1064-CTAB-DIH-1-5			
Lot #	12G127-13294			
Form	Gold Nanorods			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G127			
SPR Peak	nm	measured	UV/VIS	1050
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	509
LSPR Abs	OD	measured	UV/VIS	0.25
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	34
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	137
Aspect Ratio		calc		5.5
Concentration	nps/mL	calc		4.9E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.08
Molar Ext.	M-1cm-1	calc		1.5E+10
CTAB	mM	measured		4
Volume	mL	measured		5
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

