

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-10-980-CTAB-DIH-1-25			
Lot #	12G39-13141			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G99			
SPR Peak	nm	measured	UV/VIS	988
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	35
Diameter	nm	measured	TEM	10
Length	nm	measured	TEM	59
Aspect Ratio		calc		5.9
Concentration	nps/mL	calc		5.0E+11
Wt. conc.	mg/mL	calc		0.042
Concentration	ppm	calc		42
Wt %	%	calc		0.0042%
Molarity	nM	calc		0.83
Molar Ext.	M-1cm-1	calc		1.4E+09
CTAB	mM	measured		5
Volume	mL	measured		25
Date				7/8/2023
Exp Date				1/4/2024

Alex Schoen, Manager  
Quality Control

