

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-1400-CTAB-DIH-1-5			
Lot #	12Y267-13167			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12Y267			

SPR Peak	nm	measured	UV/VIS	1400
SPR Abs	OD	measured	UV/VIS	1
LSPR Peak	nm	measured	UV/VIS	505
LSPR Abs	OD	measured	UV/VIS	0.1
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	245
Aspect Ratio		calc		9.8
Concentration	nps/mL	calc		2.2E+10
Wt. conc.	mg/mL	calc		0.050
Concentration	ppm	calc		50
Wt %	%	calc		0.0050%
Molarity	nM	calc		0.037
Molar Ext.	M-1cm-1	calc		2.7E+10
CTAB	mM	measured		5
Volume	mL	measured		5

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

Alex Schoen, Manager Quality Control

