

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-40-750-CTAB-DIH-1-25			
Lot #	12L511A-13258			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12H135			

SPR Peak	nm	measured	UV/VIS	745
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	515
LSPR Abs	OD	measured	UV/VIS	0.4
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	112
Aspect Ratio		calc		2.8
Concentration	nps/mL	calc		2.3E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.038
Molar Ext.	M-1cm-1	calc		2.9E+10
CTAB	mM	measured		2
Volume	mL	measured		25

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

Alex Schoen, Manager  
Quality Control

