

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-50-600-CTAB-DIH-1-25			
Lot #	12M563-13115			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G84			
SPR Peak	nm	measured	UV/VIS	605
SPR Abs	OD	measured	UV/VIS	1.25
LSPR Peak	nm	measured	UV/VIS	541
LSPR Abs	OD	measured	UV/VIS	1.25
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	30
Diameter	nm	measured	TEM	50
Length	nm	measured	TEM	100
Aspect Ratio		calc		2.0
Concentration	nps/mL	calc		2.0E+10
Wt. conc.	mg/mL	calc		0.063
Concentration	ppm	calc		62.5
Wt %	%	calc		0.01%
Molarity	nM	calc		0.033
Molar Ext.	M-1cm-1	calc		3.8E+10
CTAB	mM	measured		5
Volume	mL	measured		25
Date				7/9/2023
Exp Date				1/5/2024

Alex Schoen, Manager Quality Control

