

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods
Product Number	A12-40-780-CTAB-DIH-1-1
Lot #	12M569-13368
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	RPB131

SPR Peak	nm	measured	UV/VIS	782
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	520
LSPR Abs	OD	measured	UV/VIS	0.45
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	37
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	124
Aspect Ratio		calc		3.1
Concentration	nps/mL	calc		2.1E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.034
Molar Ext.	M-1cm-1	calc		3.2E+10
CTAB	mM	measured		5
Volume	mL	measured		1

Date	1/13/2024
Exp Date	7/11/2024

Alex Schoen, Manager Quality Control

