

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-700-CTAB-DIH-1-25			
Lot #	12L478-13427			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12H140			
SPR Peak	nm	measured	UV/VIS	695
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	515
LSPR Abs	OD	measured	UV/VIS	0.45
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	34
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	75
Aspect Ratio		calc		3.0
Concentration	nps/mL	calc		9.5E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.159
Molar Ext.	M-1cm-1	calc		7.6E+09
CTAB	mM	measured		5
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

