

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-750-CTAB-DIH-1-25			
Lot #	12L517-13142			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G132			
SPR Peak	nm	measured	UV/VIS	740
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	514
LSPR Abs	OD	measured	UV/VIS	0.3
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	33
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	85
Aspect Ratio		calc		3.4
Concentration	nps/mL	calc		7.6E+10
Wt. conc.	mg/mL	calc		0.06
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.126
Molar Ext.	M-1cm-1	calc		8.7E+09
CTAB	mM	measured		2
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control

Absorbance

