

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorod			
Product Number	A12-25-780-CTAB-DIH-1-25			
Lot #	12N671-13528			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12H139A			
SPR Peak	nm	measured	UV/VIS	785
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	515
LSPR Abs	OD	measured	UV/VIS	0.3
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	32
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	87
Aspect Ratio		calc		3.5
Concentration	nps/mL	calc		8.1E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.134
Molar Ext.	M-1cm-1	calc		8.9E+09
CTAB	mM	measured		5
Volume	mL	measured		25
Date				1/13/2024
Exp Date				7/11/2024

Alex Schoen, Manager Quality Control

