

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-10-950-CTAB-DIH-1-25			
Lot #	12G76-10663			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G76			
SPR Peak	nm	measured	UV/VIS	958
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	509
LSPR Abs	OD	measured	UV/VIS	0.4
pH		measured	Expt.	6
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	10
Length	nm	measured	TEM	55
Aspect Ratio		calc		5.5
Concentration	nps/mL	calc		4.9E+11
Wt. conc.	mg/mL	calc		0.039
Concentration	ppm	calc		38.5
Wt %	%	calc		0.0039%
Molarity	nM	calc		0.82
Molar Ext.	M-1cm-1	calc		1.3E+09
CTAB	mM	measured		3
Volume	mL	measured		25
Date				7/8/2023
Exp Date				1/4/2024

Alex Schoen, Manager Quality Control

