

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-5-780-CTAB-DIH-1-25			
Lot #	12M614-12629			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12Y300			
SPR Peak	nm	measured	UV/VIS	770
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	514
LSPR Abs	OD	measured	UV/VIS	0.7
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	32
Diameter	nm	measured	TEM	5
Length	nm	measured	TEM	18
Aspect Ratio		calc		3.6
Concentration	nps/mL	calc		6.8E+12
Wt. conc.	mg/mL	calc		0.042
Concentration	ppm	calc		42
Wt %	%	calc		0.0042%
Molarity	nM	calc		11.327
Molar Ext.	M-1cm-1	calc		1.1E+08
CTAB	mM	measured		4
Volume	mL	measured		25
Date				7/8/2023
Exp Date				1/4/2024

Alex Schoen, Manager Quality Control

