

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Concentrated Gold Nanorods		
Product Number	A12-25-600-CTAB-DIH-1-25		
Lot #	12G70-12681		
Form	Gold Colloid		
Capping Agent	CTAB		
Solution	18MEG DI Water		
Source	12G70-2		

SPR Peak	nm	measured	UV/VIS	603
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	521
LSPR Abs	OD	measured	UV/VIS	0.6
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	57
Aspect Ratio		calc		2.3
Concentration	nps/mL	calc		1.2E+11
Wt. conc.	mg/mL	calc		0.06
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.20
Molar Ext.	M-1cm-1	calc		5.5E+09
CTAB	mM	measured		3
Volume	mL	measured		25

Date 9/15/2023
Exp Date 3/13/2024

Alex Schoen, Manager Quality Control

