

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanobipyramids					
Product Number	A1B-700-CIT-DIH-1-5					
Lot #	O2859					
Form	Gold Colloid					
Capping Agent	Citrate					
Solution	18MEG DI Water					
Source	1BJ08					
				Actual	Spec Low	Spec High
SPR Peak	nm	measured	UV/VIS	725	675	725
SPR Abs	OD	measured	UV/VIS	1.1	1	
LSPR Peak	nm	measured	UV/VIS	517		
LSPR Abs	OD	measured	UV/VIS	0.25		
pH		measured	Expt.	7		
Zeta Potential	mV	measured	DLS	-34		
Diameter	nm	measured	TEM	20		
Length	nm	measured	TEM	70		
Aspect Ratio		calc		3.5		
Concentration	nps/mL	calc		4.0E+10		
Wt. conc.	mg/mL	calc		0.055		
Concentration	ppm	calc		55		
Wt %	%	calc		0.0055%		
Molarity	nM	calc		0.067		
Molar Ext.	M-1cm-1	calc		1.7E+10		
Citrate	mM	measured		5		
Volume	mL	measured		5	5	
Date				6/26/2024		
Exp Date				9/24/2024		

Chris Sievers, Manager Quality Control

