

Certificate of Analysis

Product Family Nanopartz Gold Nanoplates
 Product Number A1P-10-CIT-DIH-1-5
 Lot # Q5473
 Form Gold Colloid
 Capping Agent Citrate
 Solution 18MEG DI Water
 Source Y5678

				Actual	Spec Low	Spec High
LSPR Peak	nm	measured	UV/VIS	615		
LSPR Ext	OD	measured	UV/VIS	0.06	0.05	
pH		measured	Expt.	7		
Zeta Potential	mV	measured	DLS	-33		
Thickness	nm	measured	TEM	10	5	25
Length	nm	measured	TEM	1000		
Aspect Ratio		calc		100.0		
Concentration	nps/mL	calc		3.1E+08		
Wt. conc.	mg/mL	calc		0.060		
Concentration	ppm	calc		60		
Wt %	%	calc		0.0060%		
Molarity	nM	calc		0.001		
Molar Ext.	M-1cm-1	calc		1.2E+11		
Citrate	mM	measured		5		
Volume	mL	measured		5	5	

Date

Exp Date

Nanopartz Manufactured and Certified by: C Schoen, Manager Quality Control

This certificate applies only to material manufactured by Nanopartz Inc.

