



The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanoplates
Product Number	A1P-100-CIT-DIH-1-5
Lot #	O3911
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	Y5678-1

				Actual	Spec Low	Spec High
LSPR Peak	nm	measured	UV/VIS	589		
LSPR Ext	OD	measured	UV/VIS	0.06	0.05	
pH		measured	Expt.	7		
Zeta Potential	mV	measured	DLS	-33		
Thickness	nm	measured	TEM	100	75	125
Length	nm	measured	TEM	1000		
Aspect Ratio		calc		10.0		
Concentration	nps/mL	calc		3.1E+07		
Wt. conc.	mg/mL	calc		0.060		
Concentration	ppm	calc		60		
Wt %	%	calc		0.0060%		
Molarity	nM	calc		5.19E-05		
Molar Ext.	M-1cm-1	calc		1.2E+12		
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.

