

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

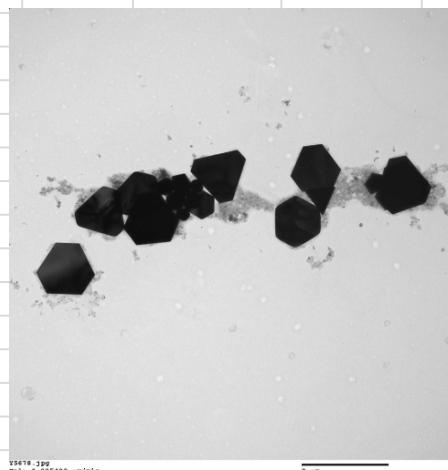
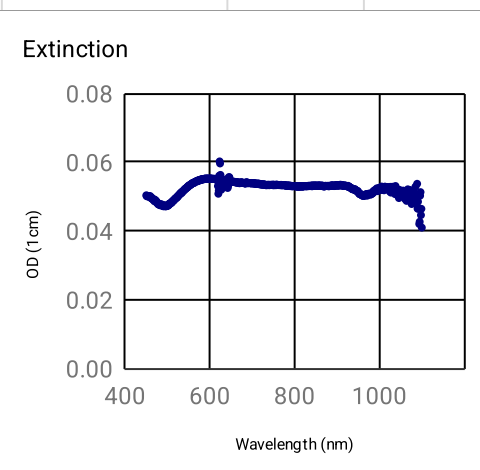
Product Family		Nanopartz Gold Nanoplates				
Product Number		A1P-50-CIT-DIH-1-5				
Lot #		Q5891				
Form		Gold Colloid				
Capping Agent		Citrate				
Solution		18MEG DI Water				
Source		Y5678				
				Actual	Spec Low	Spec High
LSPR Peak	nm	measured	UV/VIS	600	575	625
LSPR Ext	OD	measured	UV/VIS	0.055	0.05	
pH		measured	Expt.	7		
Zeta Potential	mV	measured	DLS	-33		
Thickness	nm	measured	TEM	50		
Length	nm	measured	TEM	1000		
Aspect Ratio		calc		20.0		
Concentration	nps/mL	calc		5.7E+07		
Wt. conc.	mg/mL	calc		0.055		
Concentration	ppm	calc		55		
Wt %	%	calc		0.0055%		
Molarity	nM	calc		9.51E-05		
Molar Ext.	M-1cm-1	calc		5.8E+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.



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