

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Cubic Gold Nanoparticles			
Product Number	A1C-40-CIT-DIH-1-5			
Lot #	SPEC			
Form	Gold Colloid			
Capping Agent	Citrate			
Solution	18MEG DI Water			
Source	1AJ20			
Edge	nm	measured	TEM	40
SPR Abs	OD	measured	UV/VIS	1.2
PDI	stddev/size	measured	DLS	10%
SPR Peak	nm	measured	UV/VIS	532
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-35
Concentration	nps/mL	calc		4.86E+10
Wt. conc.	mg/mL	calc		0.060
ppm		calc		60
Wt. %	%	calc		0.0060%
Molarity	pM	calc		81.0
Number	moles	calc		8.10E-14
Molar Ext.	M-1cm-1	calc		1.24E+10
Abs Molar Ext.	M-1cm-1	calc		1.17E+10
Scat Molar Ext.	M-1cm-1	calc		6.18E+08
Surf Area	nm ²	calc		9600
Citrate	mM	measured		5
Volume	mL	measured		5

Date 10/26/2023
Exp Date 4/23/2024

Alex Schoen, Manager Quality Control

