

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Cubic Gold Nanoparticles			
Product Number	A1C-50-CTAB-DIH-1-5			
Lot #				
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	1AH10			
Edge	nm	measured	TEM	50
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	DLS	10%
SPR Peak	nm	measured	UV/VIS	531
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	35
Concentration	nps/mL	calc		2.07E+10
Wt. conc.	mg/mL	calc		0.050
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	pM	calc		34.5
Number	moles	calc		3.45E-14
Molar Ext.	M-1cm-1	calc		2.90E+10
Abs Molar Ext.	M-1cm-1	calc		2.78E+10
Scat Molar Ext.	M-1cm-1	calc		1.13E+09
Surf Area	nm <sup>2</sup>	calc		15000
CTAB	mM	measured		5
Volume	mL	measured		5
Date				3/12/2019
Exp Date				9/8/2019

Alex Schoen, Manager Quality Control

