

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Gold Nanostars		
Product Number	A1S-980-CIT-DIH-1-5		
Lot #	SPEC		
Form	Gold Colloid		
Capping Agent	Au Stars:Citrate		
Solution	18 MEG DI water		
Source	1SJ06		
Total Diameter	nm	measured	TEM 160
Core Diameter	nm	measured	TEM 100
Spike Length	nm	measured	TEM 60
SPR Abs	OD	measured	UV/VIS 1
PDI	stddev/size	measured	TEM 4%
SPR Peak	nm	measured	UV/VIS 980
pH		measured	Orion 7
Zeta Potential	mV	measured	DLS -35
Concentration	nps/mL	calc	1.21E+09
Wt. conc.	mg/mL	calc	0.05
ppm		calc	50
Wt. %	%	calc	0.0050%
Molarity	uM	calc	2.02E-06
Molar Ext.	M-1cm-1	calc	4.95E+11
Volume	mL	measured	5
Date			9/19/2019
Exp Date			12/18/2019

Alex Schoen, Manager Quality Control

