

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-20-CIT-DIH-1-25
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Citrate
Buffer	18MEG DI water
Source	SPD513N

Diameter	nm	measured average	TEM, DLS, UVVIS	20
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	520
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-29
Concentration	nps/mL	calc		6.20E+11
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		1.03E-03
Molar Ext.	M-1cm-1	calc		9.67E+08
Citrate	mM	measured		5
Volume	mL	measured		25

Date 10/4/2019
Exp Date 4/1/2020

Alex Schoen, Manager Quality Control

