

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-30-CIT-DIH-1-10
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI water
Source	11CG47

Diameter	nm	measured average	TEM, DLS, UVVIS	30
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	522
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-31
Concentration	nps/mL	calc		1.84E+11
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		3.06E-04
Molar Ext.	M-1cm-1	calc		3.26E+09
Citrate	mM	measured		5
Volume	mL	measured		10

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

Alex Schoen, Manager Quality Control

