

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Gold Nanostars
Product Number	A1S-780-CIT-DIH-1-5
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Au Stars:Citrate
Solution	18 MEG DI water
Source	1SJ04C

Total Diameter	nm	measured	TEM	100
Core Diameter	nm	measured	TEM	60
Spike Length	nm	measured	TEM	40
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	780
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-32
Concentration	nps/mL	calc		4.96E+09
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		8.27E-06
Molar Ext.	M-1cm-1	calc		1.21E+11
Volume	mL	measured		5

Date	9/19/2019
Exp Date	12/18/2019

Alex Schoen, Manager Quality Control

Absorbance @1mL

