

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-200-NPC-DIH-Bulk
Lot #	11Y161
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18MEG DI Water
Source	11Y161

Diameter	nm	measured average	TEM, DLS, UVVIS	200
SPR Abs	OD	measured	UV/VIS	1.1
PDI	stddev/size	measured	TEM	3%
SPR Peak	nm	measured	UV/VIS	554
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-38
Concentration	nps/mL	calc		6.82E+08
Wt. conc.	mg/mL	calc		0.06
ppm		calc		55
Wt. %	%	calc		0.0055%
Molarity	uM	calc		1.14E-06
Molar Ext.	M-1cm-1	calc		9.67E+11

Date	8/20/2018
Exp Date	2/16/2019

Alex Schoen, Manager  
Quality Control

