

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-60-NPC-DIH-Bulk
Lot #	11H129
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18 MEG DI water
Source	11H129

Diameter	nm	measured average	TEM, DLS, UVVIS	60
SPR Abs	OD	measured	UV/VIS	1.2
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	534
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-35
Concentration	nps/mL	calc		2.76E+10
Wt. conc.	mg/mL	calc		0.06
ppm		calc		60
Wt. %	%	calc		0.0060%
Molarity	uM	calc		4.60E-05
Molar Ext.	M-1cm-1	calc		2.61E+10

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

Alex Schoen, Manager Quality Control

