

# NANOPARTZ™

The gold nanoparticle for nanotechnology

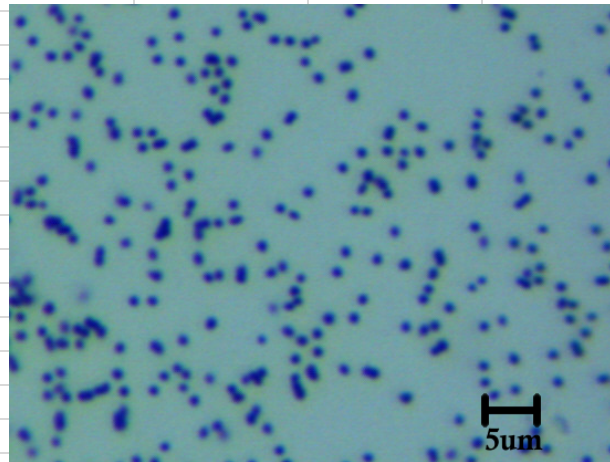
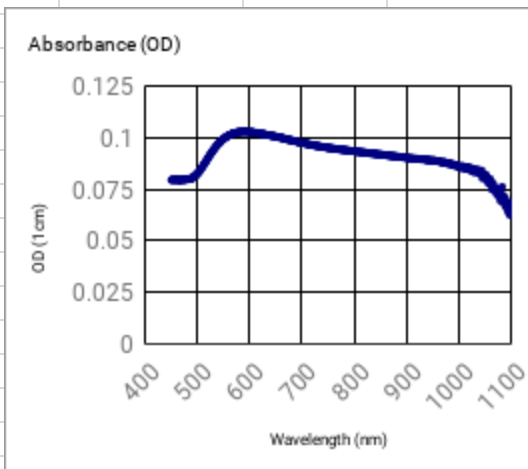
## Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-1000-NPC-DIH-Bulk
Lot #	11Y173
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	11Y173

Diameter	nm	measured	Dark Field	1000
SPR Abs	OD	measured	UV/VIS	0.1
PDI	stddev/size	measured	Dark Field	10%
SPR Peak	nm	measured	UV/VIS	600
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-38
Concentration	nps/mL	calc		4.96E+06
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		8.27E-09
Molar Ext.	M-1cm-1	calc		1.21E+13

Date	8/21/2018
Exp Date	2/17/2019

Alex Schoen, Manager  
Quality Control



40x Darkfield Microscope