

NANOPARTz™

The gold nanoparticle for nanotechnology

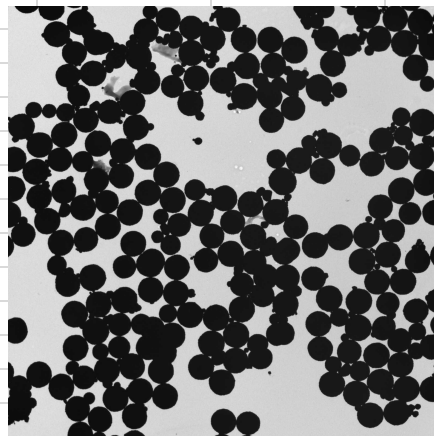
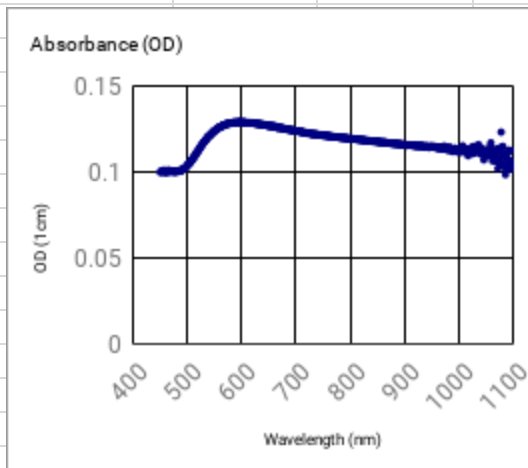
Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-1500-NPC-DIH-Bulk
Lot #	11Y173A
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18MEG DI Water

Diameter	nm	measured	Dark Field	1500
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		1.47E+06
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		2.45E-09
Molar Ext.	M-1cm-1	calc		4.08E+13

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

Alex Schoen, Manager
Quality Control



11Y173A-3_1500
Date: 8/22/2018 10:56:14
01:00:28 AM 7/23/2018

2 um
MPC00.DAV
DirectMag 480X