

NANOPARTz™

The gold nanoparticle for nanotechnology

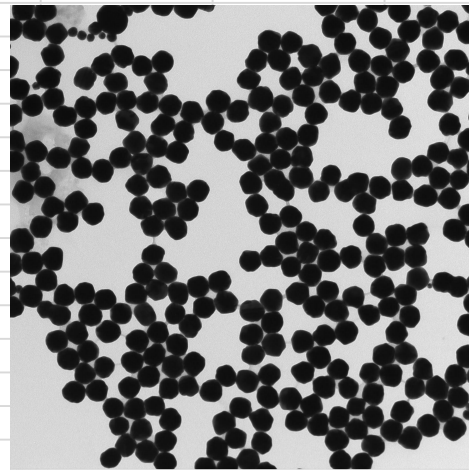
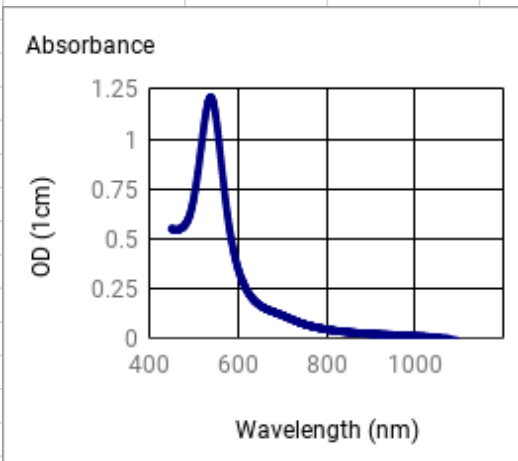
Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-65-NPC-DIH-25
Lot #	SPC349
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18 MEG DI water
Source	SPC349

Diameter	nm	measured average	TEM, DLS, UVVIS	65
SPR Abs	OD	measured	UV/VIS	1.2
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	539
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-32
Concentration	nps/mL	calc		2.17E+10
Wt. conc.	mg/mL	calc		0.06
ppm		calc		60
Wt. %	%	calc		0.0060%
Molarity	uM	calc		3.61E-05
Molar Ext.	M-1cm-1	calc		3.32E+10

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

Alex Schoen, Manager Quality Control



SPC349 21000x-2.tif
Cal: 0.668003 nm/pix
11:52:52 a 04/30/12

100 nm
HV=80.0kV
Direct Mag: 21000x
Philips CM100