

NANOPARTZ™

The gold nanoparticle for nanotechnology

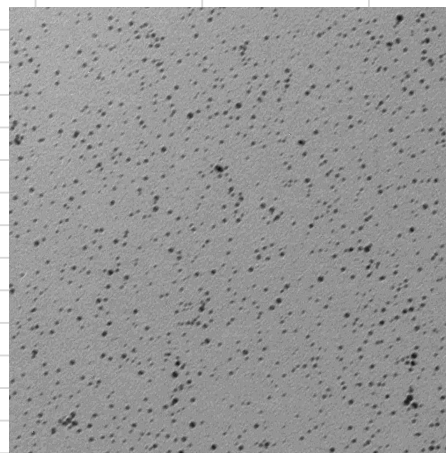
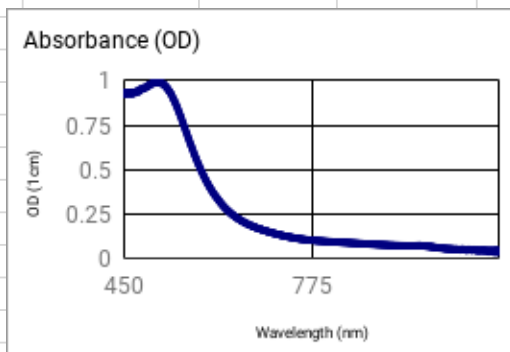
Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-5-NPC-DIH-Bulk
Lot #	E2735N
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18MEG DI Water
Source	E2735N

Diameter	nm	measured average	TEM, UVVIS	5
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	10%
SPR Peak	nm	measured	UV/VIS	509
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-37
Concentration	nps/mL	calc		3.97E+13
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		6.62E-02
Molar Ext.	M-1cm-1	calc		1.51E+07

Date	8/17/2018
Exp Date	2/13/2019

Alex Schoen, Manager
Quality Control



A11-5 E2735.jpg
Cal: 0.262055 nm/plx
2:59:10 p 08/20/14

100 nm
HV=80.0kV
Direct Mag: 52000x
Phillips CM100