

NANOPARTZ™

The gold nanoparticle for nanotechnology

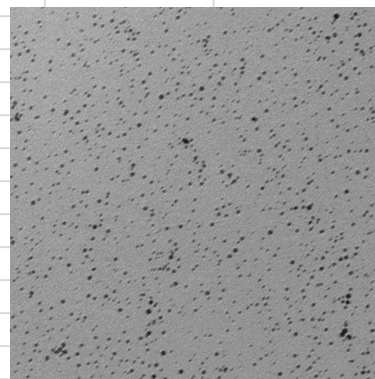
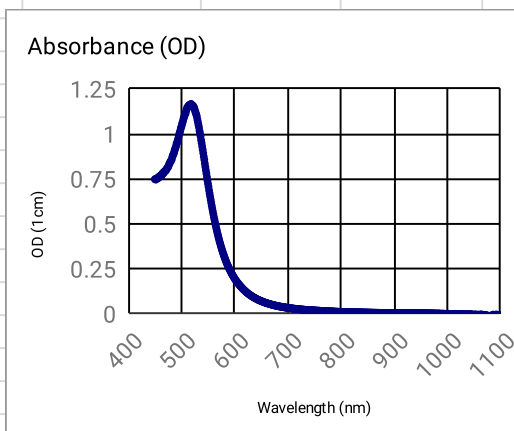
Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-5-CIT-DIH-1-5
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	E2735

Diameter	nm	measured average	TEM, UVVIS	5
SPR Abs	OD	measured	UV/VIS	1.1
PDI	stddev/size	measured	TEM	6%
SPR Peak	nm	measured	UV/VIS	514
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-37
Concentration	mps/mL	calc		4.37E+13
Wt. conc.	mg/mL	calc		0.06
ppm		calc		55
Wt. %	%	calc		0.0055%
Molarity	uM	calc		7.28E-02
Molar Ext.	M-1cm-1	calc		1.51E+07
Citrate	mM	measured		5
Volume	mL	measured		5

Date 10/4/2019
Exp Date 4/1/2020

Alex Schoen, Manager
Quality Control



A11-5 E2735.jpg
Cat: 0.262855 nm/plx
2:59:10 p 08/20/14

100 nm
HV: 80.0kV
Diffract: Mag: 50000x
Philips CM100