

NANOPARTz™

The gold nanoparticle for nanotechnology

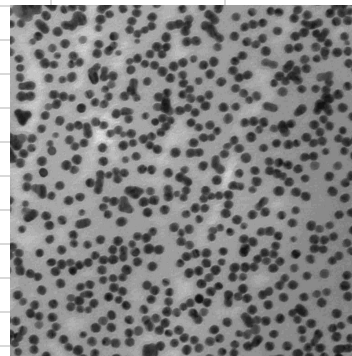
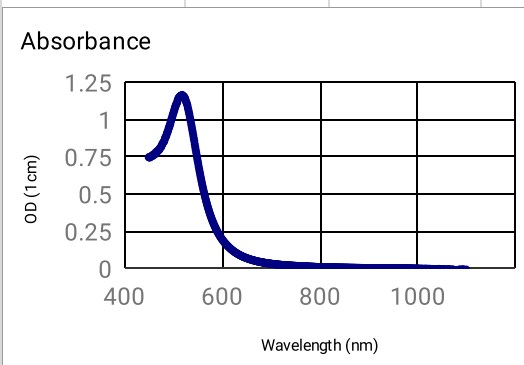
Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-10-CIT-DIH-1-10
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	E2726

Diameter	nm	measured average	TEM, UVVIS	10
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	10%
SPR Peak	nm	measured	UV/VIS	517
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-32
Concentration	nps/mL	calc		4.96E+12
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		8.27E-03
Molar Ext.	M-1cm-1	calc		1.21E+08
Citrate	mM	measured		3
Volume	mL	measured		10

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

Alex Schoen, Manager
Quality Control



A11-10 E2726-2.jpg
Call: 6.242805 0000x
3:05:59 p 08/20/14

100 nm
HV=80.0kV
DilFact=Mag: 50000x
P811ip0 CM100