

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

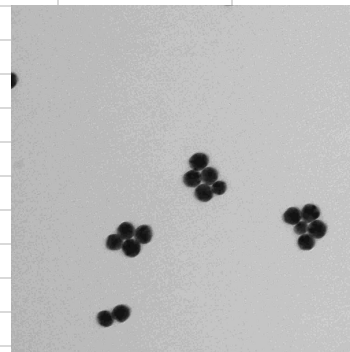
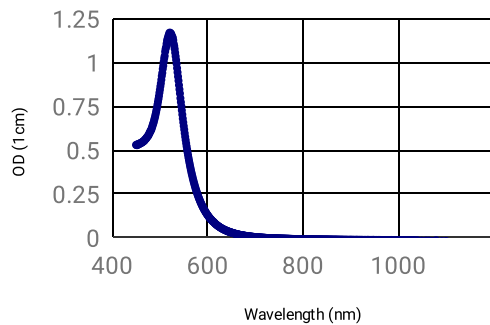
Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-25-CIT-DIH-1-10
Lot #	SPEC
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	E2534

Diameter	nm	measured average	TEM, UVVIS	25
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	6%
SPR Peak	nm	measured	UV/VIS	521
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-30
Concentration	nps/mL	calc		3.18E+11
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		5.29E-04
Molar Ext.	M-1cm-1	calc		1.89E+09
Citrate	mM	measured		3
Volume	mL	measured		10

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

Alex Schoen, Manager
Quality Control

Absorbance



A11-25 E2534.jpg
C:\1-16-18\180818\180818
3:27:52 p.m. 8/20/14
100 nm
HV: 80.0kV
Electron Mag: 28500x
Phi 1.1pm CM100