

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

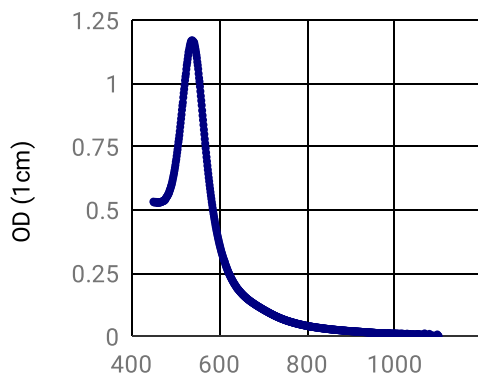
Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-65-CIT-DIH-1-25
Lot #	SPC349-13804
Form	Gold Colloid
Capping Agent	Citrate
Solution	18MEG DI Water
Source	SPC349

Diameter	nm	measured average	TEM, DLS, UVVIS	65
SPR Abs	OD	measured	UV/VIS	1.1
PDI	stddev/size	measured	TEM	4%
SPR Peak	nm	measured	UV/VIS	537
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-32
Concentration	nps/mL	calc		1.99E+10
Wt. conc.	mg/mL	calc		0.06
ppm		calc		55
Wt. %	%	calc		0.0055%
Molarity	uM	calc		3.31E-05
Molar Ext.	M-1cm-1	calc		3.32E+10
Citrate	mM	measured		5
Volume	mL	measured		25

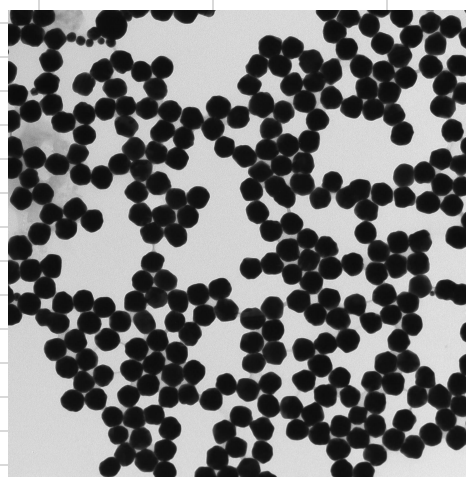
Date 1/11/2024  
Exp Date 7/9/2024

Alex Schoen, Manager Quality Control

Absorbance



Wavelength (nm)



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