

NANOPARTZ™

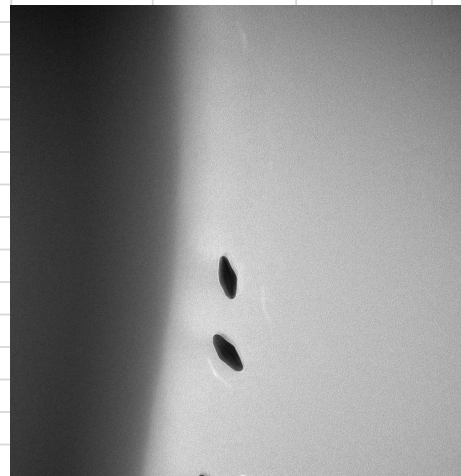
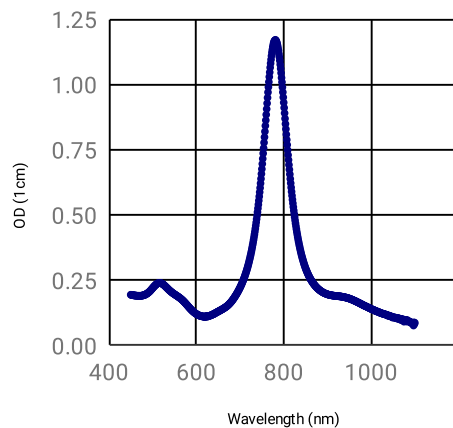
The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanobipyramids			
Product Number	A1B-780-CIT-DIH-1-5			
Lot #	SPEC			
Form	Gold Colloid			
Capping Agent	Citrate			
Solution	18MEG DI Water			
Source	Y1P			
SPR Peak	nm	measured	UV/VIS	780
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	517
LSPR Abs	OD	measured	UV/VIS	0.25
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	-34
Diameter	nm	measured	TEM	30
Length	nm	measured	TEM	100
Aspect Ratio		calc		3.3
Concentration	nps/mL	calc		4.0E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.067
Molar Ext.	M-1cm-1	calc		1.7E+10
Citrate	mM	measured		5
Volume	mL	measured		5
Date				12/10/2023
Exp Date				3/9/2024

Chris Sievers, Manager Quality Control

Absorbance



114-5.jpg
 Cal: 0.528722 nm/pix
 2:36:09 PM 1/12/2018

100 nm
 #14105_001
 Direct Mag: 120000x
 AMT camera system