	INA	N OP	4 K 🔋	Z	
	The go	old nanoparticle for n	anotechnology		
Certificate of	- F Δnalveie				
Oci tilloate of	Allalysis				
Product Family		Nanopartz Gold N			
Product Number		A12-40-980-CTAI	B-DIH-1-25		
Lot # Form		12N640-13197 Gold Colloid			
Capping Agent		CTAB			
Solution		18MEG DI Water			
Source		12Y277			
Course		12127			
SPR Peak	nm	measured	UV/VIS	988	
SPR Abs	OD	measured	UV/VIS	1.1	
LSPR Peak	nm	measured	UV/VIS	515	
LSPR Abs	OD	measured	UV/VIS	0.2	
pН		measured	Expt.	7	
Zeta Potential	mV	measured	DLS	36	
Diameter	nm	measured	TEM	40	
Length	nm	measured	TEM	180	
Aspect Ratio		calc		4.5	
Concentration Wt. conc.	nps/mL	calc		1.4E+10 0.055	
Concentration	mg/mL	calc		55	
Wt %	ppm %	calc		0.0055%	
Molarity	nM	calc		0.02	
Molar Ext.	M-1cm-1	calc		4.8E+10	
CTAB	mM	measured		3	
Volume	mL	measured		25	
Date				9/15/2023	
Exp Date				3/13/2024	
Ale Ocher Ma	0 !!!	0 ()			
Alex Schoen, Ma	nager Quality	Control			
Al (OD)					
Absorbance (OD)				2000	
1.25			1		B.
1.00			8		
				A VALUE OF THE PARTY OF THE PAR	
Q.75	 		7 =	Beenly .	
0.75 0.50			4	Residence	
0.25			4	31	
0.00					
400 6	50 900 Wavelength (nm)	1150			
	wavelength (nm)	12x277.jpg Cal: 0.647415 nm/ 12:36:59 PM 4/16/	pix 2018	100 nm HV=100.0kV Direct Mag: 98000x	