		FA I N 😽	٢А	R⊺z™	
		he gold nanopa			
Certificate	of Analys	is			
Contineate	or / aranye				
Product Family		Accurate Sp	herical Gold N	Vanoparticles	
Product Number		A11-90-CIT-DIH-1-25			
Lot #		SPEC			
Form		Gold Colloid			
Capping Agent		Citrate			
Solution		18 MEG DI v	vater		
Source		11J304			
Diameter	nm	measured average	TEM, DLS, UVVIS	90	
SPR Abs	OD	measured	UV/VIS	1	
PDI	stddev/size	measured	TEM	4%	
SPR Peak	nm	measured	UV/VIS	560	
рН		measured	Orion	7	
Zeta Potential	mV	measured	DLS	-38	
Concentration	nps/mL	calc		6.81E+09	
Wt. conc.	mg/mL	calc		0.05	
ppm	- <i>i</i>	calc		50	
Wt. %	%	calc		0.0050%	
Molarity	uM M-1cm-1	calc		1.13E-05	
Molar Ext. Citrate	mM	calc measured		8.81E+10 5	
Volume	mL	measured		25	
Volume		measurea		20	
Date				10/4/2019	
Exp Date				4/1/2020	
Alex Schoen, M	lanager Qua	lity Control		200	
Absorbance				355	
1				-	
	Λ			85185 95185	
0.75				62860 9360	
0.5 0.5 0.5				2000	
5 0.5				60000 60000 80000	
0.25			_	900000 900000 900000	à.
0 L 400	600 8	00 1000			
400	8 000	00 1000			
	Wavelen	gth (nm)			
					200