	Т	he gold nanopar	ticle for nanotec	hnology	
Certificate	of Analys	is			
Product Family Product Number		Accurate Spherical Gold A11-200-CIT-DIH-1-25		anoparticles	
Lot #		11N618-1367			
Form		Gold Colloid			
Capping Agent		Citrate			
Solution		18MEG DI W	ater		
Source		11Y161			
Diameter	nm	measured average	TEM, DLS, UVVIS	200	
SPR Abs	OD	measured	UV/VIS	1.2	
PDI	stddev/size	measured	TEM	3%	
SPR Peak	nm	measured	UV/VIS	555/772	
pН		measured	Orion	7	
Zeta Potential	mV	measured	DLS	-38	
Concentration	nps/mL	calc		7.44E+08	
Wt. conc.	mg/mL	calc		0.06	
ppm	0/	calc		60	
Wt. %	%	calc		0.0060%	
Molarity	uM M-1cm-1	calc calc		1.24E-06 9.67E+11	
Molar Ext. Citrate	mM	measured		9.07 E+11	
Volume	mL	measured		25	
Volume		measured		20	
Date				1/11/2024	
Exp Date				7/9/2024	
Alex Schoen, M Quality Control	lanager				
Absorbance (OD)					
1.25					
1.00				YXY I	Lart Arder
			× 7	J. L. L.	
୍ତି 0.75			*		Y Y
(F) 0.50					
0.25					
0.00					
400	600 80	0 1000			