		Λ ΝΙ 🦰	D۸	R⊺z [™]		
		A I N 😽	PA	ΠIΖ		
	Т	he gold nanopa	rticle for nanote	echnology		
Cortificato	of Apolyo	ic				
Certificate	OF Analys	015				
Product Family		1		Nanoparticles		
Product Number	er	A11-85-CIT-I	DIH-1-25			
Lot #		11H137				
Form		Gold Colloid				
Capping Agent		Citrate	-			
Solution		18MEG DI water				
Source		11H137				
		manaurad				
Diameter	nm	measured average	TEM, DLS, UVVIS	85		
SPR Abs	OD	measured	UV/VIS	1.1		
PDI	stddev/size		TEM	3%		
SPR Peak	nm	measured	UV/VIS	558		
pН		measured	Orion	7		
Zeta Potential	mV	measured	DLS	-35		
Concentration	nps/mL	calc		8.89E+09		
Wt. conc.	mg/mL	calc		0.06		
ppm		calc		55		
Wt. %	%	calc		0.0055%		
Molarity	uM	calc		1.48E-05		
Molar Ext.	M-1cm-1	calc		7.42E+10		
Citrate	mM	measured		5		
Volume	mL	measure		25		
Date				1/11/2024		
Exp Date				7/9/2024		
Alay Sabaan A	lanagar Oua	lity Control				
Alex Schoen, M	lallayel Qua					
Absorbance						
1.25						
1.20						
1	∕∖⊢					
Ê 0.75					Ban and	
ū				-	0282.0	
C) 0.5				See.		
0.25						
0 <u>4</u> 00	600 80	0 1000				
400	000 00	0 1000				
Wavelength (nm)			119137 4	Pg		K
	-	/	Cal: 0.9	ря 10353 nm/pix РН 11/3/2017	100 nm NV=100.0KV Direct Mag: 60000x AMT Camera System	