	—NI.	ΔΝζ		R⊺z <sup>™</sup> −	
	T	he gold nanop	article for nanote	chnology	
Certificate	of Analys	ie			
Certinoate					
Product Family		Accurate Si	oherical Gold N	lanonarticles	
Product Number		A11-50-CIT		anoparticies	
Lot #		SPEC			
Form		Gold Colloid	t		
Capping Agent		Citrate			
Solution		18MEG DI Water			
Source		11H144			
Diameter	nm	measured	TEM, DLS,	50	
		average	UVVIS		
SPR Abs	OD	measured	UV/VIS	1.1	
PDI	stddev/size		TEM	4%	
SPR Peak	nm	measured	UV/VIS	531	
pH Zeta Datantial		measured	Orion	7	
Zeta Potential	mV	measured	DLS	-32	
Concentration	nps/mL	calc		4.37E+10	
Wt. conc.	mg/mL	calc calc		0.06 55	
ppm Wt. %	%	calc		0.0055%	
Molarity	<sup>70</sup> uM	calc		7.28E-05	
Molar Ext.	M-1cm-1	calc		1.51E+10	
Citrate	mM	measured		5	
Volume	mL	measured		10	
Volume		measurea		10	
Date				10/4/2019	
Exp Date				4/1/2020	
Alex Schoen, N	lanager Qua	lity Control			
				and and a star of	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Absorbance					8868 e 560
1.25				199 9 - B	5 10 10 - 2 V
1				1997 - Brook B	229 33 39
	<b>N</b>				100 miles - 2000 - 2000
ີ 😧 0.75					
0.75 0.5 0.5					
0				an one of the star	Real Constant
0.25					80835 8 al
0					40°
400	600 8	00 1000		and dough the	
				1. 200 2 Bab	100 m 200 000
1	Wavelen	ıgth (nm)	118144- Cal: 0.	1.jpg 910358 mm/pix PH 1/12/2018	100 nm mvm100.0kv Direct Mag: 68000x AMT Camera System