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		M N 🤘		$RTz^{\scriptscriptstyleTM}$	
	1	he gold nanopa	article for nanote	echnology	
Certificate	of Analys	·ie			
Certificate	OI Allalys	013			
Product Family		Gold Nanost	are		
Product Number		A1S-850-CI			
Lot #		SPEC			
Form		Gold Colloid			
Capping Agent		Au Stars:Citi			
Solution		18 MEG DI water			
Source		1SJ05C	Water		
Cource		100000			
Total Diameter	nm	measured	TEM	130	
Core Diameter			TEM	80	
		measured	TEM	50	
Spike Length SPR Abs	nm OD	measured	UV/VIS		
PDI	stddev/size	measured	TEM	1 4%	
SPR Peak	nm	measured	UV/VIS	850	
pH	11111	measured	Orion	7	
Zeta Potential	mV	measured	DLS	-35	
Concentration	nps/mL	calc	DLS	2.26E+09	
Wt. conc.	mg/mL	calc		0.05	
	mg/mL	calc		50	
ppm Wt. %	%	calc		0.0050%	
Molarity	uM	calc		3.76E-06	
Molar Ext.	M-1cm-1	calc		2.66E+11	
Volume	mL	measured		5	
Volume	IIIL	measured		J	
Date				9/19/2019	
Exp Date				12/18/2019	
EXP Bate				12/10/2010	
Alex Schoen, M	lanager Qua	lity Control			
Absorbance @	1ml		*	* * *	
				The Manager	******
1				44	
0.75					* . 3
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0.5				. 4	
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0.25	- 	\ \	200	the "	**
			2.4	4.4.7	
400	600 80	00 1000			
700	555 00	1000			*
		gth (nm)			