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			icle for nand	otechnology	
Certificate	of Analys	sis			
Product Family		Accurate S	oherical Gol	d Nanoparticles	
Product Number			A11-3-CIT-DIH-1-10		
Lot #		SPEC			
Form		Gold Collo	id		
Capping Agent		Citrate			
Solution		18MEG DI Water			
Source		SPA229N			
Diameter	nm	measured	TEM	3.0	
SPR Abs	OD	measured	UV/VIS	1.2	
PDI	stddev/size	measured	TEM	25%	
SPR Peak	nm	measured	UV/VIS	505	
рН		measured	Orion	9	
Zeta Potential	mV	measured	DLS	-35	
Concentration	nps/mL	calc		2.21E+14	
Wt. conc.	mg/mL	calc		0.06	
ppm		calc		60	
Wt. %	%	calc		0.0060%	
Molarity	uM	calc		3.68E-01	
Molar Ext.	M-1cm-1	calc		3.26E+06	
Citrate	mM	measured		10	
Volume	mL	measured		10	
Date				10/4/2019	
Exp Date				4/1/2020	
Alox Soboon A	lopogor				
Alex Schoen, M Quality Control					
Absorbar				Barra 1	100
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OD (1cm)			24	Same States	100
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450	725			and the second	
Wavelength (nm)				105000x-1.tif	See 1