		P I nanoparticle for			
Cortificate of					
Certificate of	Allalysis				
Product Family			Gold Nanowire		
Product Number			A14-10000-CTAB-DIH-1-		
Lot #		F3280-7999			
Appearance Form		Slight off wh			
Capping Agent			White precipitate colloid CTAB		
Solution		18MEG DI V			
Source		F3280	vater		
		. 5255			
SPR Peak	nm	measured	UV/VIS	510	
SPR Abs	OD	measured	UV/VIS	0.05	
pН		measured	Expt.	7	
Zeta Potential	mV	measured	DLS	35	
Diameter	nm	measured	TEM	75	
Length	nm	measured	TEM	10000	
Aspect Ratio		calc		133.3	
Concentration	nps/mL	calc		5.9E+07	
Wt. conc.	mg/mL	calc		0.050	
Concentration Wt %	ppm %	calc		0.0050%	
Molarity	nM	calc		9.81E-05	
Molar Ext.	M-1cm-1	calc		5.1E+11	
CTAB	mM	measured		25	
Volume	mL	measured		5	
Date				8/28/2019	
Exp Date				2/24/2020	
Alex Schoen, Mar	nager				
Quality Control					
			-		
Absorbance			B. M. T.		
0.06	<del> </del>		K A	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	~~/~/ <del>~</del>
0.00			855 Æ	1 0/2	
0.04			( )		100
				Significant	
OD (1cm)					100
8 0.02				\ W.F.	
5.52			1	4 /2	March &
				3 1 1 V	
				4	1300
	00 800 10			1. 3.	
	Wavelength (nm)	F3280 Cal: 0 2:05:4	.jpg .006101 um/pix 17 p 03/23/15	2 micr HV=80	1.0kV
I	TTGTCICHYLII (IIIII)			Direc	t Mag: 2200x ps CM100