	Т	he gold nanop	article for nano	technology		
Certificate	of Analys	sis				
Product Family			herical Gold N			
Product Number	r	E11-100-NF K7591	PO-MM-2.5-0	.25		
Form			old Nanopart	icles		
Capping Agent			Organic Polyn			
Solution		Metamateria				
Source		11H131				
Diameter	nm	measured	TEM	100		
SPR Abs	OD	measured	UV/VIS	224		
PDI Book	stddev/size		TEM	4%		
SPR Peak	nm	measured measured	UV/VIS Orion	574 n/a		
Zeta Potential	mV	measured	DLS	n/a		
Concentration		calc	DEG	1.11E+12		
Wt. conc.	mg/mL	calc		11.2		
ppm		calc		11200		
Wt. %	%	calc		1.1%		
Molarity	uM	calc		1.85E-03		
Molar Ext.	M-1cm-1	calc		1.21E+11		
Weight Volume	mg mL	calc measured		2.8 0.25		
Volume	IIIL	illeasureu		0.23		
Date				5/13/2020		
Exp Date				8/11/2020		
Chris Sievers, N	Manager					
Quality Control						
Absorbance (OD)						
250				CULX	ITYY	Y
200	$\Lambda$				LIYYY	
200	/ <b>\</b>			<b>VIII</b>	ITY	Y
150	<del>/  \                                   </del>				TYY	
000 (1cm)				rivid.	ITY	Y
100				700		Y
50	+			00		Y
		$\searrow \downarrow$		00		
0 60	0, 00, 0	0, 0, 0,	00	100	Y	Y
NO. 201	, 600 100 8	300 900 7000	170		CYC	
	Wavelengt	h (nm)	11H131-1 Cal: 0.6- 12:48:08	.jpq 47415 mm/pix FH 5/11/2018	100 nm HV=100.0kV Direct Mag: 98000x	À