		N o P			
<u> </u>		I nanoparticle for	nanotechnolo	ду	
Certificate of	Analysis				
Product Family		Nanopartz Gold Nanorods			
Product Number		A12-40-780-CTAB-DIH-1-1			
Lot #		12M569-13368			
Form		Gold Colloid			
Capping Agent			latan		
Solution		18MEG DI W RPB131	valer		
Source		RPBIJI			
SPR Peak	nm	measured	UV/VIS	782	
SPR Abs	OD	measured	UV/VIS	1.1	
LSPR Peak	nm	measured	UV/VIS	520	
LSPR Abs	OD	measured	UV/VIS	0.45	
pН		measured	Expt.	7	
Zeta Potential	mV	measured	DLS	37	
Diameter	nm	measured	TEM	40	
Length	nm	measured	TEM	124	
Aspect Ratio		calc		3.1	
Concentration	nps/mL	calc		2.1E+10	
Wt. conc.	mg/mL	calc		0.055	
Concentration	ppm	calc		55	
Wt %	%	calc		0.0055%	
Molarity	nM	calc		0.034	
Molar Ext.	M-1cm-1	calc		3.2E+10	
СТАВ	mM	measured		5	
Volume	mL	measured		1	
Date				1/13/2024	
Exp Date				7/11/2024	
Exp Bate				11112021	
Alex Schoen, Mar	nager Quality C	ontrol			
Absorbance					5
1.25					
	ΙΛ				
1.00	+ / 1	+ $ $			
				222	
0.75	+ + + +	+1		East	
(JE) 0.50				HA.	
8 0.50		1			5
0.25					5
0.23	$\Psi$   $\neg$	┝    -			
0.00				MIL	6
	500 800 <sup>-</sup>	1000		L'ALX	2
	Wavelength (nm)	c	PB131 28500x-1.tif al: 0.47824 nm∕pix	100	nm 30.0kV
	wavelength (IIII)	1	1:42:08 a 03/07/12		80.0kV oct Mag: 28500x