		N			
_		old nanoparticle	for nanotechr	nology	
Certificate o	f Analysis				
Product Family		Nanopartz	Gold Nanor	ods	
Product Number		A12-40-650-CTAB-DIH-1-25			
Lot #		12M567-13024			
Form		Gold Colloid			
Capping Agent		СТАВ			
Solution		18MEG DI Water			
Source		12G84			
SPR Peak	nm	measured	UV/VIS	652	
SPR Abs	OD	measured	UV/VIS	1	
LSPR Peak	nm	measured	UV/VIS	525	
LSPR Abs	OD	measured	UV/VIS	0.75	
рН		measured	- P -	7	
Zeta Potential	mV	measured	DLS	35	
Diameter	nm	measured	TEM	40	
Length	nm	measured calc	TEM	2.0	
Aspect Ratio Concentration	nps/mL	calc		3.1E+10	
Wt. conc.	mg/mL	calc		0.050	
Concentration	ppm	calc		50	
Wt %	%	calc		0.0050%	
Molarity	nM	calc		0.052	
Molar Ext.	M-1cm-1	calc		1.9E+10	
СТАВ	mM	measured		3	
Volume	mL	measured		25	
Date				9/15/2023	
Exp Date				3/13/2024	
Chris Sievers, Ma	anager				
Quality Control					
Absorbance (OD)					S. 14
1.25			6.0	1	753
1.00			1	100 - 1	T.C.
1.00	/\		VIII	275220	
0.75	/ 		No. of Street, or other Persons	1900 8	2-111
0.50	V			2001 2	
e 0.50					
0.25	+		2 00	SA JI	
0.00			3000		
0.00	600 800	1000	6.0		
			12084 tif		100.00
	Wavelength (nm	יי	12084 tif Cml: 0.647415 nm/pix 2:44:37 PM 9/9/2016		100 nm NV=100.0kV Direct Mag: 98000x AMT Camera System