	-NA I	N o P	AR	7		
	The gold	nanoparticle for r	hanotechnolog	IY		
Certificate of	Analysis					
	y					
Product Family		Nanonartz G	old Nanohini	vramide		
Product Number		Nanopartz Gold Nanobipyramids A1B-700-CIT-DIH-1-5				
Lot #		O2859				
Form		Gold Colloid				
Capping Agent		Citrate				
Solution		18MEG DI W	/ater			
Source		1BJ08				
				Actual	Spec Low	Spec High
SPR Peak	nm	measured	UV/VIS	725	675	725
SPR Abs	OD	measured	UV/VIS	1.1	1	
LSPR Peak	nm	measured	UV/VIS	517		
LSPR Abs	OD	measured	UV/VIS	0.25		
pН		measured	Expt.	7		
Zeta Potential	mV	measured	DLS	-34		
Diameter	nm	measured	TEM	20		
Length	nm	measured	TEM	70		
Aspect Ratio		calc		3.5		
Concentration	nps/mL	calc		4.0E+10		
Wt. conc.	mg/mL	calc		0.055		
Concentration	ppm	calc		55		
Wt %	%	calc		0.0055%		
Molarity Molar Ext.	nM M-1cm-1	calc calc		0.067 1.7E+10		
Citrate	mM	measured		5		
Volume	mL	measured		5	5	
Volume		measured		5	0	
Date				6/26/2024		
Exp Date				9/24/2024		
Chris Sievers, Ma	nager Quality (Control				
			9			
Absorbance						
1.25						
1.20						
1.00				•		
				-	6	
0.75			*	012	1 h	
(F) 6 0.50				SAVE	AR	
8 0.50	+ + + +			ACE	ELLE.	
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0.25	╎╎	<u> </u>		() Star	AIT	
	\checkmark \sim			2000	And_	
0.00				50		
400 6	00 800 1	000				
	Wavelength (nm)	1870	08.jpg 0.422977 nm/pix 0.422977 nm/pix		100 mm HV=100.0kV Direct Mag: 150000x	30-00