Certificate of Analysis	The colo	d nanoparticle for			
Product Family       Nanopartz Go         Product Number       A1T-650-CIT-         Lot #       SPEC         Form       Gold Colloid         Capping Agent       Citrate         Solution       18MEG DI W         Source       1TN26         SPR Peak       nm         SPR Abs       OD         pH       measured         Zeta Potential       mV         Ronce       mg/mL         Concentration       nps/mL         Concentration       ppm         Vt. conc.       mg/mL         Concentration       ppm         Wt %       %         Colar Ext.       M-1cm-1         Calc       Molarity         Molar Ext.       M-1cm-1         Calc       Concentration         Date       Image: Concentrol         Chris Sievers, Manager Quality Control       Image: Concentrol         Absorbance       Image: Concentrol         1.25       Image: Concentrol				<i><i>JY</i></i>	
Product Number       A1T-650-CIT-Lot #         Lot #       SPEC         Form       Gold Colloid         Capping Agent       Citrate         Solution       18MEG DI W         Source       1TN26         SPR Peak       nm         SPR Abs       OD         pH       measured         Zeta Potential       mV         Bage       nm         Thickness       nm         Concentration       nps/mL         Calc       Concentration         Wt. conc.       mg/mL         Calc       Wt %         Wt %       %         calc       Molarity         Molar Ext.       M-1cm-1         Citrate       mM         Molar Ext.       M-1cm-1         Chris Sievers, Manager Quality Control					
Product Number       A1T-650-CIT-Lot #         Lot #       SPEC         Form       Gold Colloid         Capping Agent       Citrate         Solution       18MEG DI W         Source       1TN26         SPR Peak       nm         SPR Abs       OD         pH       measured         Zeta Potential       mV         Bage       nm         Thickness       nm         Concentration       nps/mL         Calc       Concentration         Wt. conc.       mg/mL         Calc       Wt %         Wt %       %         calc       Molarity         Molar Ext.       M-1cm-1         Citrate       mM         Molar Ext.       M-1cm-1         Chris Sievers, Manager Quality Control				· ·	
Lot # SPEC Form Gold Colloid Capping Agent Citrate Solution 18MEG DI W Source 1TN26 SPR Peak nm measured SPR Abs OD measured pH measured Edge nm measured Concentration nps/mL calc Wt. conc. mg/mL calc Concentration ppm calc Wt % % calc Molarity nM calc Molar Ext. M-1cm-1 calc Citrate mM measured Volume mL measured Date Exp Date Chris Sievers, Manager Quality Control Absorbance 1.25 1.00 0.75		Nanopartz Gold Nanotria		ngles	
Form       Gold Colloid         Capping Agent       Citrate         Solution       18MEG DI W         Source       1TN26         SPR Peak       nm         SPR Abs       OD         pH       measured         Zeta Potential       mV         Thickness       nm         Concentration       nps/mL         Calc       Concentration         Wt. conc.       mg/mL         Concentration       ppm         Concentration       ppm         Concentration       ppm         Concentration       ppm         Calc       Molarity         Molar Ext.       M-1cm-1         Calc       Molarity         Date       Image: Calc         Exp Date       Image: Calc         Absorbance       Image: Calc         1.25       Image: Calc         1.00       Image: Calc         0.75       Image: Calc			-DIH-1-5		
Capping Agent Citrate Solution 18MEG DI W Source 1TN26 SPR Peak nm measured SPR Abs OD measured pH measured Edge nm measured Thickness nm measured Concentration nps/mL calc Concentration ppm calc Concentrat					
Solution       18MEG DI W         Source       1TN26         SPR Peak       nm         SPR Abs       OD         pH       measured         Zeta Potential       mV         Edge       nm         Thickness       nm         nm       measured         Concentration       nps/mL         calc       calc         Wt. conc.       mg/mL         Concentration       ppm         calc       calc         Wt %       %         calc       mM         Molarity       nM         Molar Ext.       M-1cm-1         Citrate       mM         measured       measured         Volume       mL         measured       measured         Date       calc         Exp Date       calc         1.00	ing Agont				
Source ITN26 ITN26 SPR Peak nm measured SPR Abs OD measured pH measured Edge nm measured Thickness nm measured Concentration nps/mL calc Concentration ppm calc Wt conc. mg/mL calc Concentration ppm calc Wt % % calc Molarity nM calc Molar Ext. M-1cm-1 calc Citrate mM measured Volume mL measured Date nu measured Chris Sievers, Manager Quality Control Absorbance 1.25 1.00 0.75					
SPR Peak       nm       measured         SPR Abs       OD       measured         pH       measured       measured         Zeta Potential       mV       measured         Edge       nm       measured         Thickness       nm       measured         Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Date       mL       measured         Exp Date       Image: Currol       Image: Currol         Absorbance       Image: Currol       Image: Currol			Valei		
SPR Abs       OD       measured         pH       mV       measured         Zeta Potential       mV       measured         Edge       nm       measured         Thickness       nm       measured         Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Pate       Pate         Exp Date       Image: Quality Control       Image: Quality Control         Absorbance       Image: Quality Control       Image: Quality Control		111120			
SPR Abs       OD       measured         pH       mV       measured         Zeta Potential       mV       measured         Edge       nm       measured         Thickness       nm       measured         Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Pate       Pate         Exp Date       Image: Quality Control       Image: Quality Control         Absorbance       Image: Quality Control       Image: Quality Control	Peak nm	measured	UV/VIS	650	
pH     measured       Zeta Potential     mV     measured       Edge     nm     measured       Thickness     nm     measured       Concentration     nps/mL     calc       Wt. conc.     mg/mL     calc       Concentration     ppm     calc       Wt %     %     calc       Molarity     nM     calc       Molar Ext.     M-1cm-1     calc       Citrate     mM     measured       Volume     mL     measured       Date			UV/VIS	1	
Zeta Potential       mV       measured         Edge       nm       measured         Thickness       nm       measured         Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control         Absorbance       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control			Expt.	7	
EdgenmmeasuredThicknessnmmeasuredConcentrationnps/mLcalcWt. conc.mg/mLcalcConcentrationppmcalcWt %%calcMolaritynMcalcMolar Ext.M-1cm-1calcCitratemMmeasuredVolumemLmeasuredDateImage: ConcentrolImage: ConcentrolChris Sievers, Manager Quality ControlImage: ConcentrolAbsorbanceImage: ConcentrolImage: Concentrol	Potential mV		DLS	-32	
Thickness       nm       measured         Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date			TEM	125	
Concentration       nps/mL       calc         Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date			TEM	45	
Wt. conc.       mg/mL       calc         Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Exp Date       Image: Chris Sievers, Manager Quality Control         Absorbance       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control				8.5E+09	
Concentration       ppm       calc         Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control         Absorbance       Image: Chris Sievers, Manager Quality Control       Image: Chris Control				0.050	
Wt %       %       calc         Molarity       nM       calc         Molar Ext.       M-1cm-1       calc         Citrate       mM       measured         Volume       mL       measured         Date       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control         Absorbance       Image: Chris Sievers, Manager Quality Control       Image: Chris Sievers, Manager Quality Control		calc		50	
Molar Ext. M-1cm-1 calc Citrate mM measured Volume mL measured Date Exp Date Chris Sievers, Manager Quality Control Absorbance 1.25 1.00 0.75		calc		0.0050%	
Citrate mM measured Volume mL measured Date Exp Date Chris Sievers, Manager Quality Control Absorbance 1.25 1.00 0.75 MM measured	ity nM	calc		0.014	
Volume mL measured Date Exp Date Chris Sievers, Manager Quality Control	Ext. M-1cm-1	calc		7.1E+10	
Date Exp Date Chris Sievers, Manager Quality Control Absorbance 1.25 1.00 0.75	e mM	measured		5	
Exp Date Chris Sievers, Manager Quality Control	ne mL	measured		5	
Exp Date Chris Sievers, Manager Quality Control				10/3/2023	
Absorbance 1.25 1.00 0.75	Date			1/1/2024	
Absorbance 1.25 1.00 0.75					
1.25	Sievers, Manager Quality C	Control			
1.25				AAD	INY
1.00	orbance		HXK	Start.	AT A
0.75	1.25		A AS	K KK	KX2
0.75 (Fig. 0.50	1.00				
0.75 (F) 9 0.50	0.75			5KNA	TAT
	0.73			ASIRK	XXX
	0.50				
0.25	0.25			1344	2 D
0.00	0.00		NTY	13S	AND
400 600 800 1000			NN24-1.jpg hl: 0.910353 nm/pix 2:44:06 Fw 9/21/2023	JXXI	0 mm =100.0kV rect bag: 68000x 51.2522 Y: -22.844304 7 Campara System