	NAI	V = P	AK	Z	
	The gold	d nanoparticle for r	nanotechnolo	ду	
Certificate of	Analysis				
Product Family		Nanopartz G	old Nanorod	ds	
Product Number		A12-25-850-CTAB-DIH-1-25			
Lot #		12L486F-12658			
Form		Gold Colloid			
Capping Agent		CTAB			
Solution		18MEG DI W	/ater		
Source		12H186			
SPR Peak	nm	measured	UV/VIS	860	
SPR Abs	OD	measured	UV/VIS	1.1	
LSPR Peak	nm	measured	UV/VIS	514	
LSPR Abs	OD	measured	UV/VIS	0.15	
pH Zeta Detential	m\/	measured	Expt.	7	
Zeta Potential Diameter	mV	measured	DLS TEM	32 25	
	nm	measured	TEM	93	
Length	nm	measured calc	I EIVI	3.7	
Aspect Ratio	n n a /na l			6.9E+10	
Concentration Wt. conc.	nps/mL	calc		0.055	
Concentration	mg/mL	calc		55	
Wt %	ppm %	calc		0.0055%	
Molarity	nM	calc		0.003376	
Molar Ext.	M-1cm-1	calc		9.6E+09	
CTAB	mM	measured		5.02109	
Volume	mL	measured		25	
Volume	11111	measurea		20	
Date				9/15/2023	
Exp Date				3/13/2024	
Alass Calanan Man	Olit O	- material			
Alex Schoen, Mar	nager Quality C	ontroi			
Absorbance					
1.25					
1.00	<del>                                     </del>	+			
0.75					N. T. S. T.
(F)	<b> </b>				
(mol) 0.50					
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0.25	<b></b>				The Miles
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