

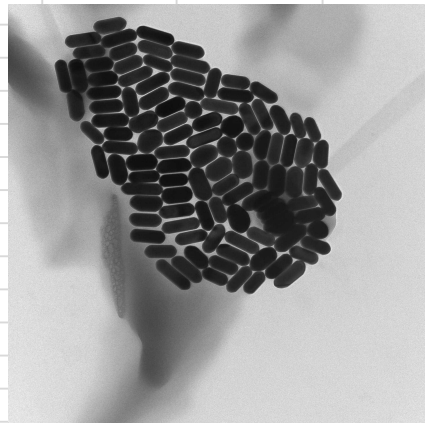
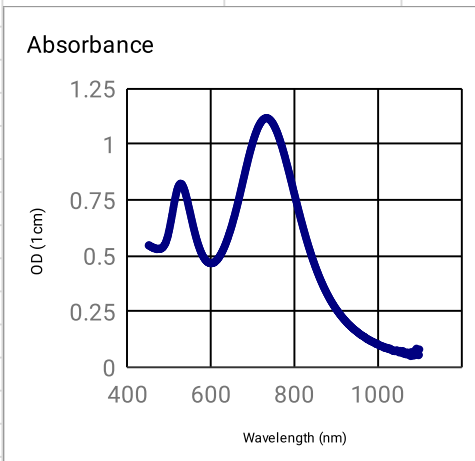
NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-70-750-CTAB-DIH-1-25			
Lot #	12G128A-12844			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12G128A			
SPR Peak	nm	measured	UV/VIS	740
SPR Abs	OD	measured	UV/VIS	1
LSPR Peak	nm	measured	UV/VIS	530
LSPR Abs	OD	measured	UV/VIS	0.8
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	33
Diameter	nm	measured	TEM	70
Length	nm	measured	TEM	120
Aspect Ratio		calc		1.7
Concentration	nps/mL	calc		7.0E+09
Wt. conc.	mg/mL	calc		0.050
Concentration	ppm	calc		50
Wt %	%	calc		0.0050%
Molarity	nM	calc		0.012
Molar Ext.	M-1cm-1	calc		8.6E+10
CTAB	mM	measured		3
Volume	mL	measured		25
Date				7/9/2023
Exp Date				1/5/2024

Alex Schoen, Manager Quality Control



L12G128A.jpg
 Cal: 0.41053 nm/px
 12/04/04 PM 11/29/2014

107 nm
 0.41053 nm/px
 Direct Map #80884
 SBF Camera System