

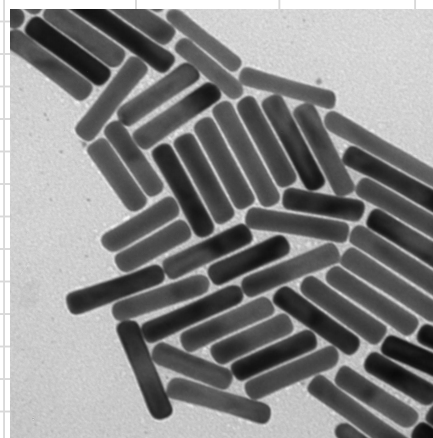
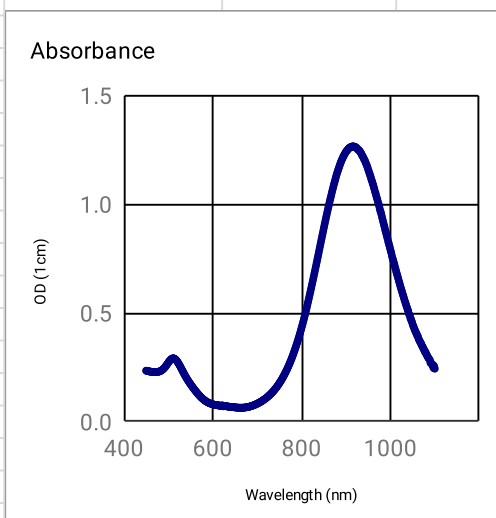
NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-25-900-CTAB-DIH-1-25			
Lot #	12G121-11714			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	RPB050			
SPR Peak	nm	measured	UV/VIS	896
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	511
LSPR Abs	OD	measured	UV/VIS	0.3
pH		measured	Expt.	6
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	96
Aspect Ratio		calc		3.8
Concentration	nps/mL	calc		6.6E+10
Wt. conc.	mg/mL	calc		0.055
Concentration	ppm	calc		55
Wt %	%	calc		0.0055%
Molarity	nM	calc		0.111
Molar Ext.	M-1cm-1	calc		1.0E+10
CTAB	mM	measured		5
Volume	mL	measured		25
Date				9/15/2023
Exp Date				3/13/2024

Alex Schoen, Manager Quality Control



RPB050 73000x-1.tif
Print Mag: 133000x @ 51 nm
11:35:46 a 08/26/11

20 nm
HV=100.0kV
Direct Mag: 73000x