

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

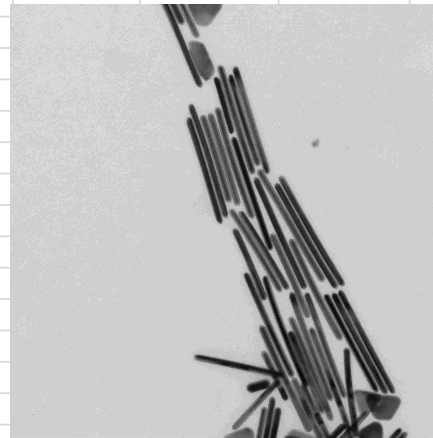
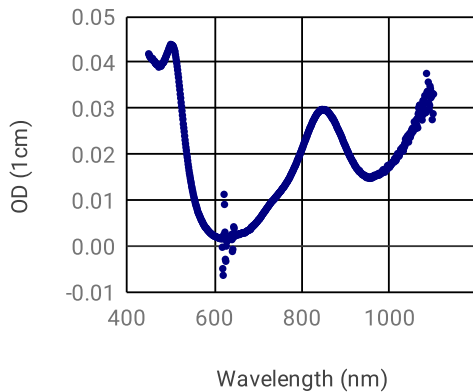
Product Family	Nanopartz Gold Nanorods
Product Number	A12-10-2100-CTAB-DIH-1-5
Lot #	12M532A-12817
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	12G62

pH		measured	Expt.	5
Zeta Potential	mV	measured	DLS	30
Diameter	nm	measured	TEM	10
Length	nm	measured	TEM	175
Aspect Ratio		calc		17.5
Concentration	nps/mL	calc		1.3E+11
Wt. conc.	mg/mL	calc		0.035
Concentration	ppm	calc		35
Wt %	%	calc		0.0035%
Molarity	nM	calc		0.225
Molar Ext.	M-1cm-1	calc		2.2E+08
CTAB	mM	measured		5
Volume	mL	measured		5

Date	7/9/2023
Exp Date	1/5/2024

Alex Schoen, Manager Quality Control

### Absorbance



12G62.jpg  
Cal: 0.468003 nm/pix  
22418 p 06/24/16

100 nm  
HV=80.0kV  
Direct Mag: 21000x  
Phillips CM100