

NANOPARTZ™

The gold nanoparticle for nanotechnology

Certificate of Analysis

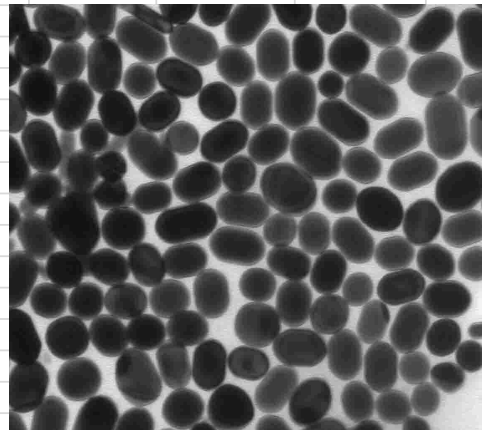
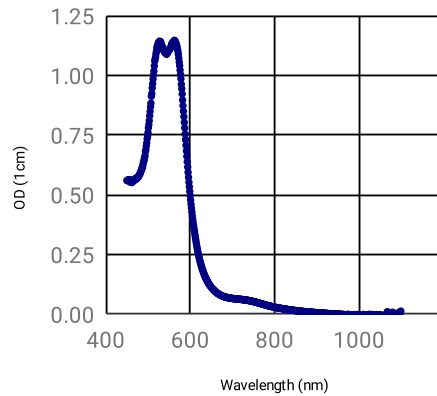
Product Family	Nanopartz Gold Nanorods
Product Number	A12-40-550-CTAB-DIH-1-25
Lot #	12G83-12827
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI water
Source	E2974D

SPR Peak	nm	measured	UV/VIS	561
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	530
LSPR Abs	OD	measured	UV/VIS	1.2
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	39
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	60
Aspect Ratio		calc		1.5
Concentration	nps/mL	calc		5.3E+10
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		6.0E+01
Wt %	%	calc		0.01%
Molarity	nM	calc		0.088
Molar Ext.	M-1cm-1	calc		1.4E+10
CTAB	mM	measured		5
Volume	mL	measured		25

Date	9/15/2023
Exp Date	3/13/2024

Alex Schoen, Manager
Quality Control

Absorbance



E2974-3pp
Cal: 0.494560 nm/px
4:10:33 PM 11/18/2014

100 nm
HV900-00V
Direct Mag: 180000x
CM10-Dusty