

NANOPARTz™

The gold nanoparticle for nanotechnology

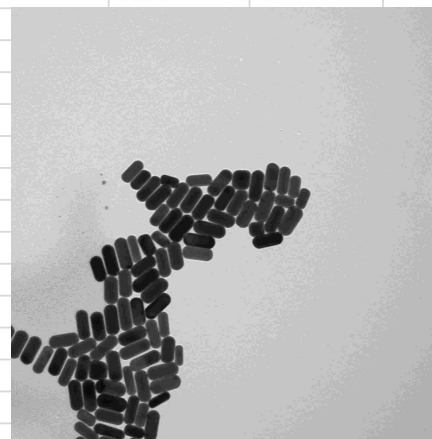
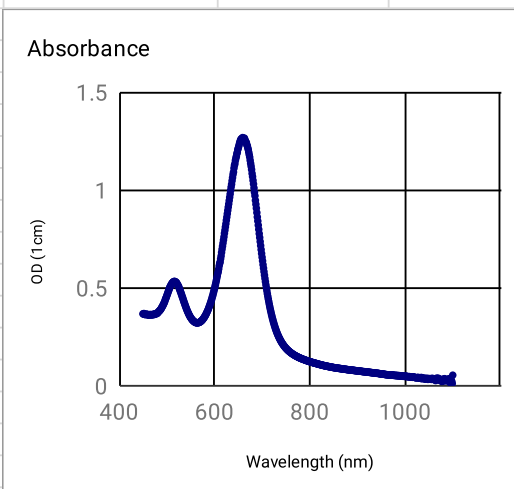
Certificate of Analysis

Product Family	Nanopartz Gold Nanorods
Product Number	A12-25-650-CTAB-DIH-1-25
Lot #	F3216-13427
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	12G72

SPR Peak	nm	measured	UV/VIS	668
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	516
LSPR Abs	OD	measured	UV/VIS	0.5
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	33
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	71
Aspect Ratio		calc		2.8
Concentration	nps/mL	calc		1.0E+11
Wt. conc.	mg/mL	calc		0.060
Concentration	ppm	calc		60
Wt %	%	calc		0.0060%
Molarity	nM	calc		0.17
Molar Ext.	M-1cm-1	calc		7.1E+09
CTAB	mM	measured		3
Volume	mL	measured		25

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

Alex Schoen, Manager Quality Control



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 Col: 0.47834 nm/pix
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100 nm
 HV=60.0kV
 Direct Mag: 28500x
 Philips CM100