

NANOPARTZ™

The gold nanoparticle for nanotechnology

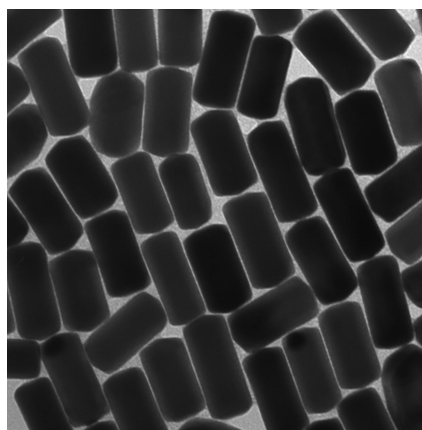
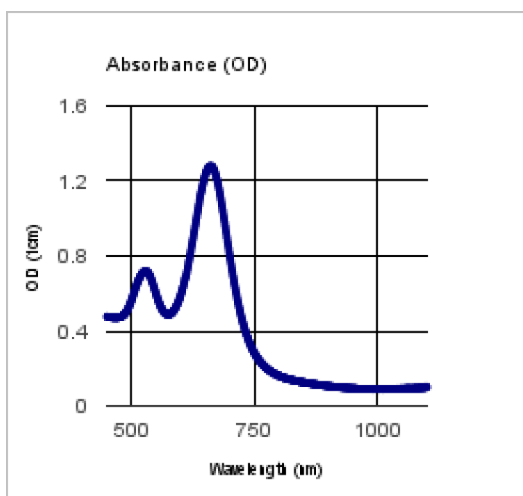
Certificate of Analysis

Product Family	Nanopartz Gold Nanorod
Product Number	A12-40-650-CTAB
Lot #	RPB046D
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water

SPR Peak	nm	measured	UV/VIS	660
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	527
LSPR Abs	OD	measured	UV/VIS	0.7
pH		measured	Expt.	5
Zeta Potential	mV	measured	DLS	38
Diameter	nm	measured	TEM	40
Length	nm	measured	TEM	80
Aspect Ratio		calc		2.0
Concentration	nps/mL	calc		3.7E+10
Concentration	mg/mL	calc		0.060
CTAB	mM	measured		5

Date	1/6/2017
Exp Date	7/5/2017

Alex Schoen, Manager
Quality Control



RPB046 73000x-2.11f
Cal: 0.190223 mm/pix
9:29:06 a 09/14/11

20 mm
HV=80.0kV
Direct Mag: 73000x
AMT Camera System