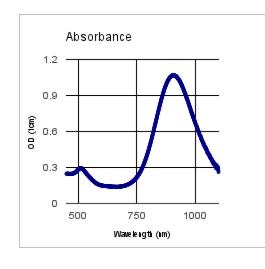


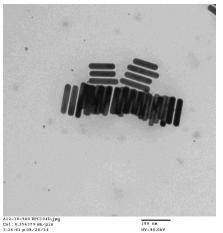
The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family Product Number Lot # Form Capping Agent Solution	Product Number Lot # Form Capping Agent		Nanopartz Gold Nanorodz A12-10-900-CTAB RPC194D Gold Colloid CTAB 18MEG DI Water		
SPR Peak	nm	measured	UV/VIS	900	
SPR Abs	OD	measured	UV/VIS	1	
LSPR Peak	nm	measured	UV/VIS	510	
LSPR Abs	OD	measured	UV/VIS	0.3	
рН		measured	Expt.	6	
Zeta Potential	mV	measured	DLS	44	
Diameter	nm	measured	TEM	10	
Length	nm	measured	TEM	50	
Aspect Ratio		calc		5	
Concentration	nps/mL	calc		4.9E+11	
Concentration	mg/mL	calc		0.035	
CTAB	mM	measured		3	
Date				1/4/2017	
Exp Date				7/3/2017	

Alex Schoen, Manager Quality Control





100 nm HV=80.0kV Direct Mag: 39000x Philips CM100