

# NANOPARTz™

The gold nanoparticle for nanotechnology

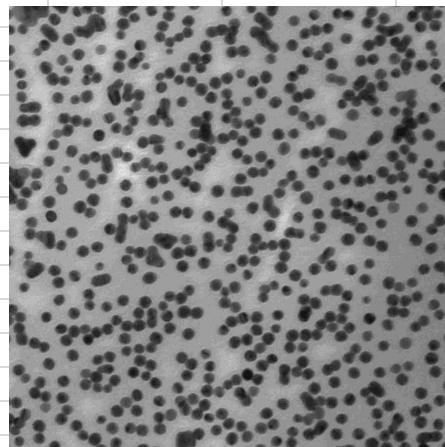
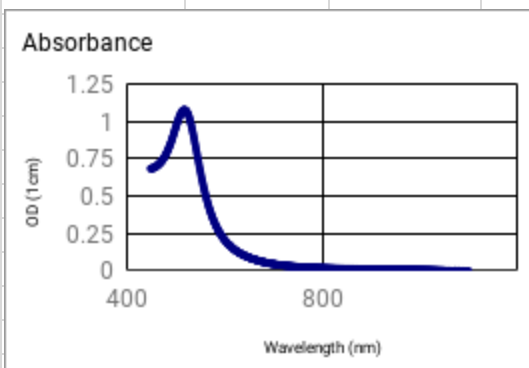
## Certificate of Analysis

Product Family	Accurate Spherical Gold Nanoparticles
Product Number	A11-10-NPC-DIH-Bulk
Lot #	E2726
Form	Gold Colloid
Capping Agent	Nanopartz Carboxylic Acid
Solution	18MEG DI Water
Source	E2726

Diameter	nm	measured average	TEM, UVVIS	10
SPR Abs	OD	measured	UV/VIS	1
PDI	stddev/size	measured	TEM	10%
SPR Peak	nm	measured	UV/VIS	518
pH		measured	Orion	7
Zeta Potential	mV	measured	DLS	-32
Concentration	nps/mL	calc		4.96E+12
Wt. conc.	mg/mL	calc		0.05
ppm		calc		50
Wt. %	%	calc		0.0050%
Molarity	uM	calc		8.27E-03
Molar Ext.	M-1cm-1	calc		1.21E+08

Date 8/17/2018  
Exp Date 2/13/2019

Alex Schoen, Manager  
Quality Control



A11-10 E2726-2.jpg  
Cal: 0.262055 nm/px  
3:05:50 p 08/20/14

100 nm  
HV=80.0kV  
Direct Mag: 52000x  
Phillips CM100