

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

Product Family	Nanopartz Gold Nanorods
Product Number	A12-10-700-CTAB-DIH-1-25
Lot #	12M595-12842
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water
Source	12H129

SPR Peak	nm	measured	UV/VIS	705
SPR Abs	OD	measured	UV/VIS	1.2
LSPR Peak	nm	measured	UV/VIS	513
LSPR Abs	OD	measured	UV/VIS	0.25
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	33
Diameter	nm	measured	TEM	10
Length	nm	measured	TEM	30
Aspect Ratio		calc		3.0
Concentration	nps/mL	calc		1.0E+12
Wt. conc.	mg/mL	calc		0.042
Concentration	ppm	calc		42
Wt %	%	calc		0.00%
Molarity	nM	calc		1.734
Molar Ext.	M-1cm-1	calc		6.9E+08
CTAB	mM	measured		5
Volume	mL	measured		25

Date	7/8/2023
Exp Date	1/4/2024

Alex Schoen, Manager Quality Control

Absorbance

