

# NANOPARTZ™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorods			
Product Number	A12-5-700-CTAB-DIH-1-25			
Lot #	12Y300A-11272			
Form	Gold Colloid			
Capping Agent	CTAB			
Solution	18MEG DI Water			
Source	12Y300A			
SPR Peak	nm	measured	UV/VIS	725
SPR Abs	OD	measured	UV/VIS	1.1
LSPR Peak	nm	measured	UV/VIS	518
LSPR Abs	OD	measured	UV/VIS	0.55
pH		measured	Expt.	0.75
Zeta Potential	mV	measured	DLS	32
Diameter	nm	measured	TEM	5
Length	nm	measured	TEM	15
Aspect Ratio		calc		3.0
Concentration	nps/mL	calc		7.6E+12
Wt. conc.	mg/mL	calc		0.039
Concentration	ppm	calc		39
Wt %	%	calc		0.0039%
Molarity	nM	calc		12.719
Molar Ext.	M-1cm-1	calc		8.6E+07
CTAB	mM	measured		4
Volume	mL	measured		25
Date				7/8/2023
Exp Date				1/4/2024

Alex Schoen, Manager Quality Control

