

## Certificate of Analysis

Product Family	Nanopartz Gold Nanorod
Product Number	A12-25-980-CTAB
Lot #	12G47
Form	Gold Colloid
Capping Agent	CTAB
Solution	18MEG DI Water

SPR Peak	nm	measured	UV/VIS	990
SPR Abs	OD	measured	UV/VIS	1
LSPR Peak	nm	measured	UV/VIS	507
LSPR Abs	OD	measured	UV/VIS	0.3
pH		measured	Expt.	7
Zeta Potential	mV	measured	DLS	35
Diameter	nm	measured	TEM	25
Length	nm	measured	TEM	120
Aspect Ratio		calc		4.8
Concentration	nps/mL	calc		4.8E+10
Concentration	mg/mL	calc		0.050
CTAB	mM	measured		5

Date	1/4/2017
Exp Date	7/3/2017

Alex Schoen, Manager Quality Control

