

NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

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|----------------|------------------------|
| Product Family | Nanopartz Gold Nanorod |
| Product Number | A12-25-1064-CTAB |
| Lot # | 12G127 |
| Form | Gold Colloid |
| Capping Agent | CTAB |
| Solution | 18MEG DI Water |

| | | | | |
|----------------|--------|----------|--------|---------|
| SPR Peak | nm | measured | UV/VIS | 1064 |
| SPR Abs | OD | measured | UV/VIS | 1.2 |
| LSPR Peak | nm | measured | UV/VIS | 517 |
| LSPR Abs | OD | measured | UV/VIS | 0.2 |
| pH | | measured | Expt. | 5 |
| Zeta Potential | mV | measured | DLS | 42 |
| Diameter | nm | measured | TEM | 25 |
| Length | nm | measured | TEM | 137 |
| Aspect Ratio | | calc | | 5.5 |
| Concentration | nps/mL | calc | | 4.9E+10 |
| Concentration | mg/mL | calc | | 0.060 |
| CTAB | mM | measured | | 3 |

Date 1/4/2017

Exp Date 7/3/2017

Alex Schoen, Manager Quality Control

