

NANOPARTZ™

The gold nanoparticle for nanotechnology

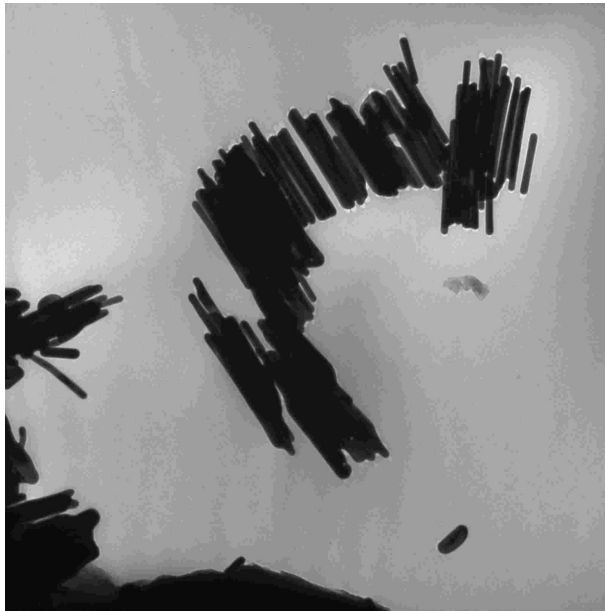
Certificate of Analysis

| | |
|----------------|------------------------|
| Product Family | Nanopartz Gold Nanorod |
| Product Number | A12-25-1400-CTAB |
| Lot # | 12G61 |
| Form | Gold Colloid |
| Capping Agent | CTAB |
| Solution | 18MEG DI Water |

| | | | | |
|----------------|--------|----------|-------|---------|
| pH | | measured | Expt. | 6 |
| Zeta Potential | mV | measured | DLS | 38 |
| Diameter | nm | measured | TEM | 25 |
| Length | nm | measured | TEM | 256 |
| Aspect Ratio | | calc | | 10.2 |
| Concentration | nps/mL | calc | | 2.3E+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



12G61.jpg
Cal: 0.879507 nm/pix
2:17:03 p 06/24/16

100 nm
HV=80.0kV
Direct Mag: 15500x
Philips CM100