

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

|                |                   |
|----------------|-------------------|
| Product Family | Bare Gold Nanorod |
| Product Number | 30-25-1200        |
| Lot #          | RPB066D           |
| Appearance     | Gold              |
| Form           | Colloid           |
| Supernatant    | Water <100mM CTAB |

|                |    |          |        |      |
|----------------|----|----------|--------|------|
| SPR Peak       | nm | measured | UV/VIS | 1200 |
| SPR Abs        | AU | measured | UV/VIS | 1    |
| LSPR Peak      | nm | measured | UV/VIS | 508  |
| LSPR Abs       | AU | measured | UV/VIS | 0.23 |
| pH             |    | measured | Expt.  | 4    |
| Zeta Potential | mV | measured | DLS    | 36   |
| Axial Diameter | nm | measured | TEM    | 21   |
| Long Diameter  | nm | measured | TEM    | 171  |

|               |        |      |         |
|---------------|--------|------|---------|
| Aspect Ratio  |        | calc | 8.1     |
| Concentration | nps/mL | calc | 5.1E+11 |
| Concentration | mg/mL  | calc | 0.04    |

|          |           |
|----------|-----------|
| Date     | 1/30/2012 |
| Exp Date | 7/28/2012 |

Shelley Coldiron, Manager  
Quality Control

