

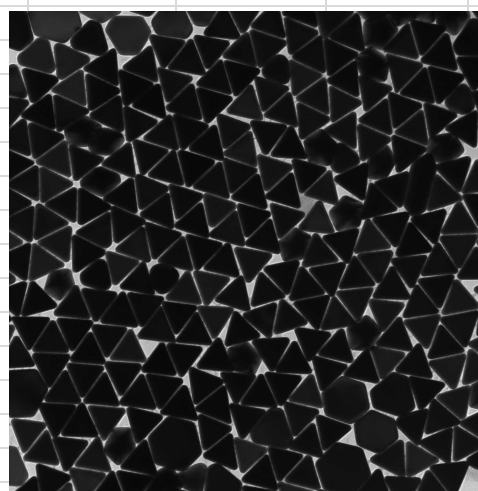
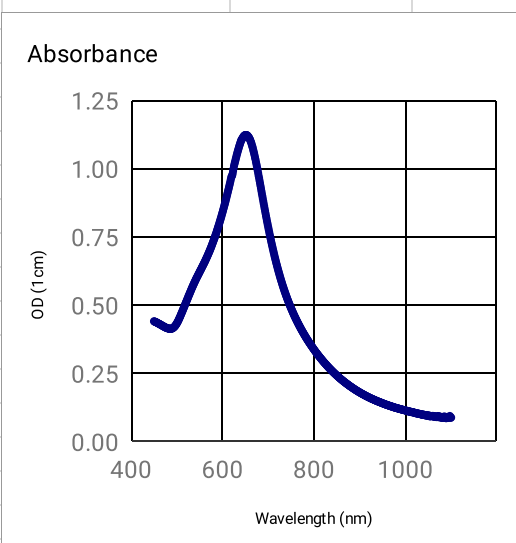
NANOPARTz™

The gold nanoparticle for nanotechnology

Certificate of Analysis

| | | | |
|----------------|------------------------------|----------|------------|
| Product Family | Nanopartz Gold Nanotriangles | | |
| Product Number | A1T-650-CIT-DIH-1-5 | | |
| Lot # | SPEC | | |
| Form | Gold Colloid | | |
| Capping Agent | Citrate | | |
| Solution | 18MEG DI Water | | |
| Source | 1TN26 | | |
| SPR Peak | nm | measured | UV/VIS 650 |
| SPR Abs | OD | measured | UV/VIS 1 |
| pH | | measured | Expt. 7 |
| Zeta Potential | mV | measured | DLS -32 |
| Edge | nm | measured | TEM 125 |
| Thickness | nm | measured | TEM 45 |
| Concentration | nps/mL | calc | 8.5E+09 |
| Wt. conc. | mg/mL | calc | 0.050 |
| Concentration | ppm | calc | 50 |
| Wt % | % | calc | 0.0050% |
| Molarity | nM | calc | 0.014 |
| Molar Ext. | M-1cm-1 | calc | 7.1E+10 |
| Citrate | mM | measured | 5 |
| Volume | mL | measured | 5 |
| Date | 10/3/2023 | | |
| Exp Date | 1/1/2024 | | |

Chris Sievers, Manager Quality Control



10/24/23 1:30 PM
 C:\...
 10:44:04 PM 9/21/2023
 120 nm
 HV=100.0kV
 Detect: BEI: 68000x
 X: 91.2552 Y: -22.844304
 ART Camera System