NANOPARTz™

The gold nanoparticle for nanotechnology

# Certificate of Analysis

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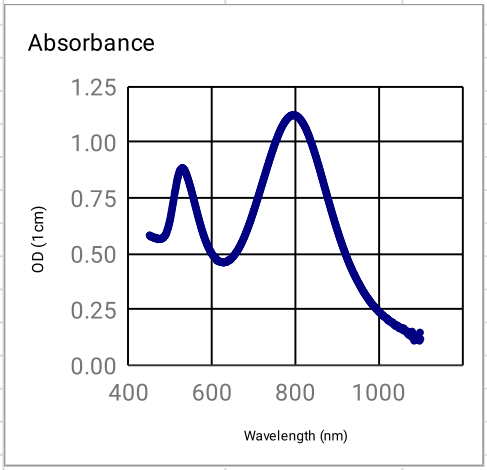
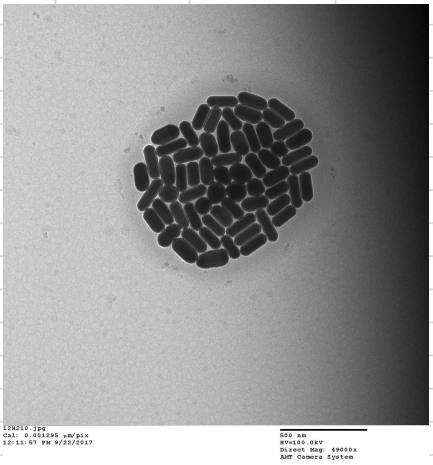
|---|---|---|---|---|
| Product Family | | Nanopartz Gold Nanorods | | |
| Product Number | | A12-70-808-CTAB-DIH-1-25 | | |
| Lot # | | 12H210-9157 | | |
| Form | | Gold Colloid | | |
| Capping Agent | | CTAB | | |
| Solution | | 18MEG DI Water | | |
| Source | | 12H210 | | |
| | | | | |
| SPR Peak | nm | measured | UV/VIS | 800 |
| SPR Abs | OD | measured | UV/VIS | 1.1 |
| LSPR Peak | nm | measured | UV/VIS | 530 |
| LSPR Abs | OD | measured | UV/VIS | 0.85 |
| pH | | measured | Expt. | 6 |
| Zeta Potential | mV | measured | DLS | 33 |
| Diameter | nm | measured | TEM | 70 |
| Length | nm | measured | TEM | 140 |
| Aspect Ratio | | calc | | 2.0 |
| Concentration | nps/mL | calc | | 6.4E+09 |
| Wt. conc. | mg/mL | calc | | 0.055 |
| Concentration | ppm | calc | | 55 |
| Wt % | % | calc | | 0.0055% |
| Molarity | nM | calc | | 0.011 |
| Molar Ext. | M-1cm-1 | calc | | 1.0E+11 |
| CTAB | mM | measured | | 5 |
| Volume | mL | measured | | 25 |
| | | | | |
| Date | | | | 7/9/2023 |
| Exp Date | | | | 1/5/2024 |

Alex Schoen, Manager Quality Control