

# NANOPARTz™

The gold nanoparticle for nanotechnology

## Certificate of Analysis

|                |                              |          |        |           |
|----------------|------------------------------|----------|--------|-----------|
| Product Family | Nanopartz Gold Nanotriangles |          |        |           |
| Product Number | A1T-780-CIT-DIH-1-5          |          |        |           |
| Lot #          | SPEC                         |          |        |           |
| Form           | Gold Colloid                 |          |        |           |
| Capping Agent  | Citrate                      |          |        |           |
| Solution       | 18MEG DI Water               |          |        |           |
| Source         | 1TN28                        |          |        |           |
| SPR Peak       | nm                           | measured | UV/VIS | 780       |
| SPR Abs        | OD                           | measured | UV/VIS | 1         |
| pH             |                              | measured | Expt.  | 7         |
| Zeta Potential | mV                           | measured | DLS    | -34       |
| Edge           | nm                           | measured | TEM    | 200       |
| Thickness      | nm                           | measured | TEM    | 55        |
| Concentration  | nps/mL                       | calc     |        | 2.7E+09   |
| Wt. conc.      | mg/mL                        | calc     |        | 0.050     |
| Concentration  | ppm                          | calc     |        | 50        |
| Wt %           | %                            | calc     |        | 0.0050%   |
| Molarity       | nM                           | calc     |        | 0.005     |
| Molar Ext.     | M-1cm-1                      | calc     |        | 2.2E+11   |
| Citrate        | mM                           | measured |        | 5         |
| Volume         | mL                           | measured |        | 5         |
| Date           |                              |          |        | 10/3/2023 |
| Exp Date       |                              |          |        | 1/1/2024  |

Chris Sievers, Manager Quality Control

