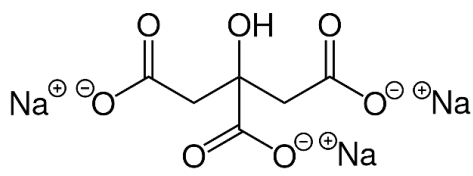




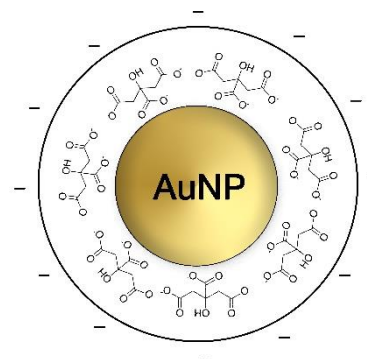
NB-GSP-3.5-CIT-1

## 3.5nm Gold Nano-Spheres, citrate-coated OD=1

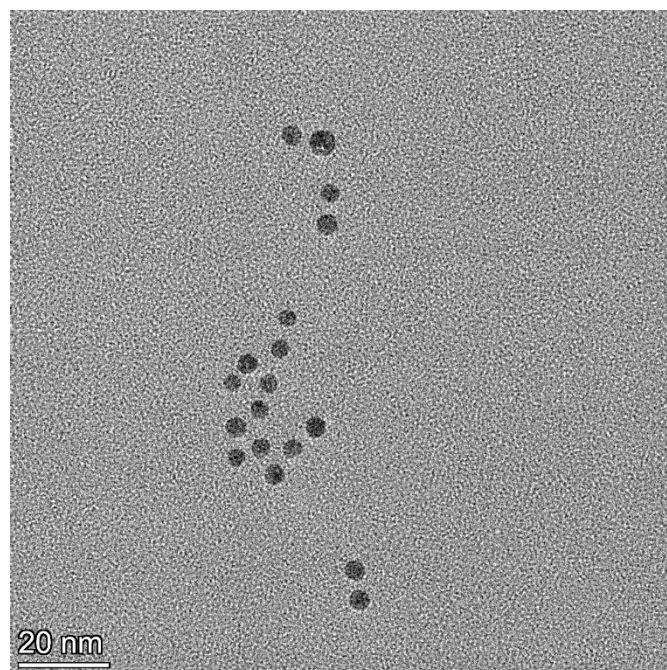
### Sodium Citrate CAS 68-04-2



### Gold nanoparticles coated with citrate



|                                       |                               |
|---------------------------------------|-------------------------------|
| <b>Diameter (TEM):</b>                | 3.83 ± 0.34 nm                |
| <b>Coefficient of polydispersity:</b> | 9.10%                         |
| <b>Optical density (OD):</b>          | 1                             |
| <b>Mass of single particle:</b>       | 5.677E-16 mg                  |
| <b>Surface of single particle:</b>    | 46.08 nm <sup>2</sup>         |
| <b>Volume of single particle:</b>     | 29.42 nm <sup>3</sup>         |
| <b>Particles concentration:</b>       | 1.292E+14 particles/ml        |
| <b>Molar particles concentration:</b> | 215.4 nM                      |
| <b>Surface area (TEM):</b>            | 81.17 m <sup>2</sup> /g       |
| <b>Surface to volume ratio:</b>       | 1.567 nm <sup>-1</sup>        |
| <b>Mass of gold:</b>                  | 73.4 µg/ml                    |
| <b>pH of the solution:</b>            | 5.5 – 6.5                     |
| <b>Particle surface:</b>              | Sodium Citrate                |
| <b>Solvent:</b>                       | Milli-Q water<br>(18.1 MΩ-cm) |

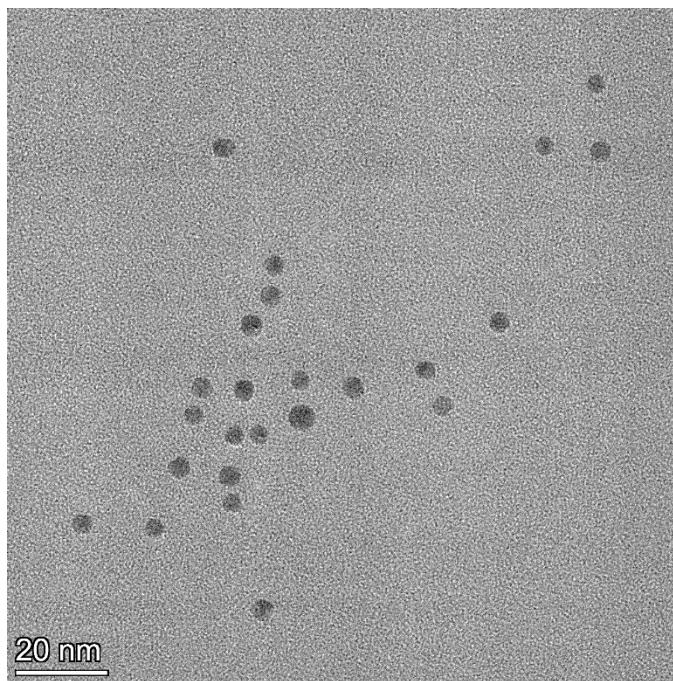
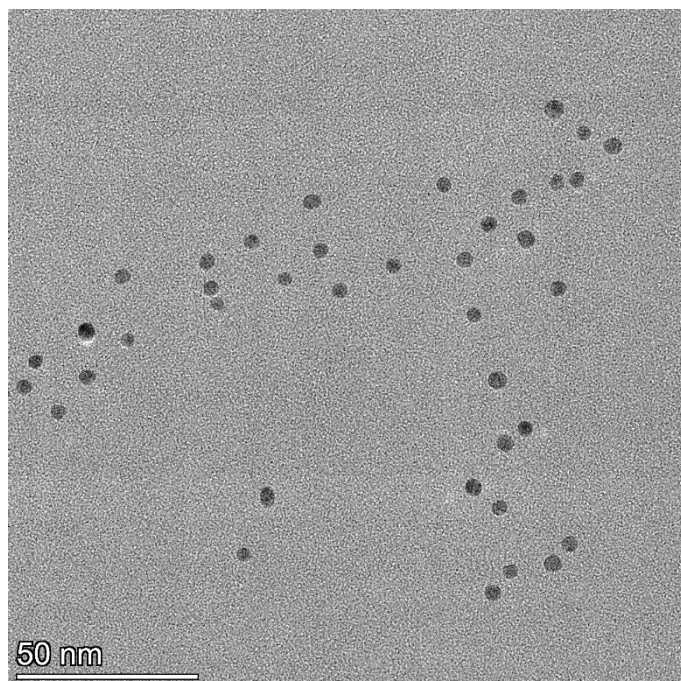


#### Instrumentation used for characterization

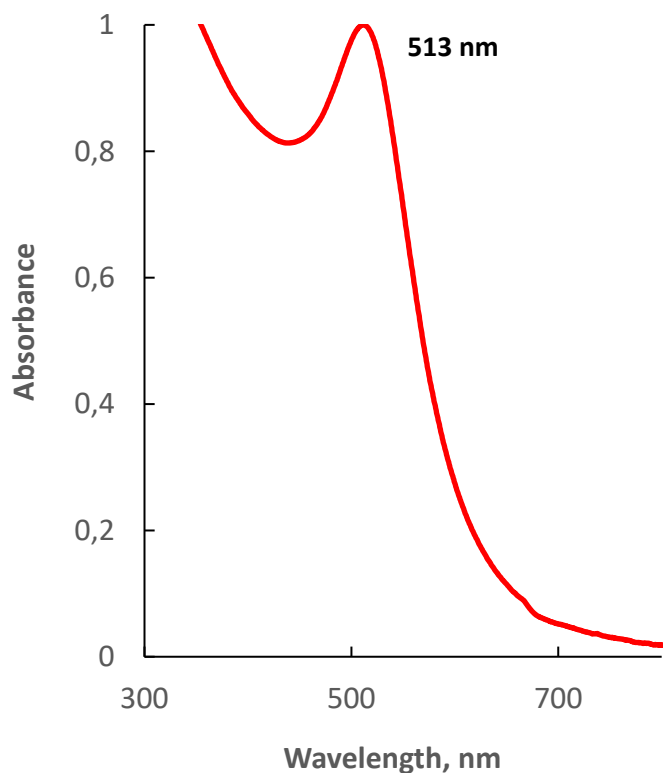
|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Diameter and size distribution:           | Transmission Electron Microscope Thermo Scientific TALOS F200X |
| Mass concentration:                       | PerkinElmer NexION 2000P+ ICP-MS                               |
| Spectral properties:                      | PerkinElmer Lambda 365+ UV-Visible Spectrophotometer           |
| Hydrodynamic Diameter and Zeta Potential: | Malvern Zetasizer                                              |

**Shake before use. Store at 4-25°C away from light. DO NOT FREEZE**

## 3.5nm Gold Nano-Spheres, citrate-coated OD=1



### Optical Properties



### Size Distribution

