

Product Number: 1AU



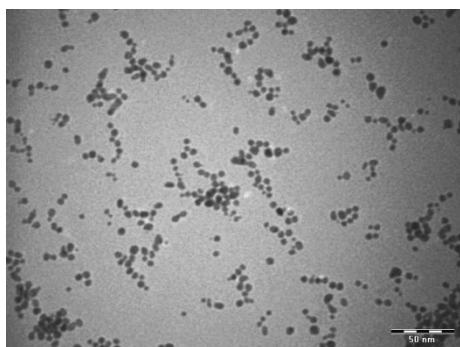
Description: Au nanoparticles (NP) can be supplied in citrate-stabilized solution at different concentrations or in solid form upon request.

Application: applications for Au NP includes: as conductors from printable inks to connect resistors, conductors of electronic chips; photodynamic therapy - to killing tumor cells in hyperthermia therapy after light exposure; as therapeutic agents by coating the NP surface with drugs; as colorimetric sensor for the detection of proteins, pollutants, and molecules label-free; to detect biomarkers in the diagnosis of heart diseases, cancers, and infectious agents; as catalysts in chemical reactions and for fuel cell applications in the automotive and display industry.

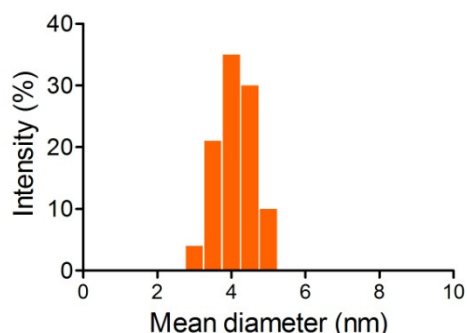
Properties:

	Colloidal solution
Color	red liquid
Morphology	spherical
pH	6 – 7
Particle Size	4.0 nm
UV Absorption	λ max 520 nm

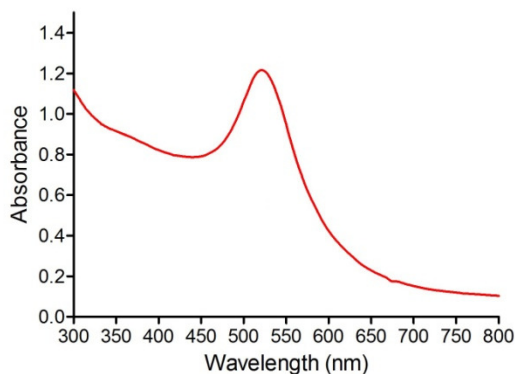
Quality Control of Au nanoparticles:



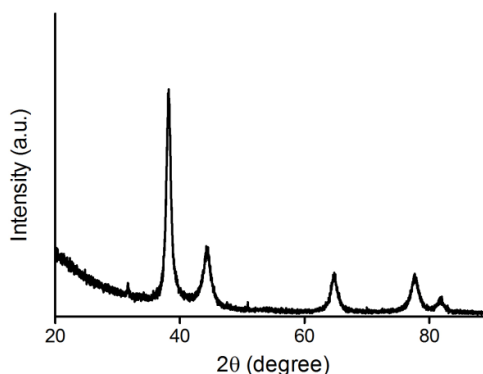
TEM analysis



DLS Particle size distribution



UV – visible spectrum



XRD analysis

Caution: Store suspensions between 2-10 °C; do not freeze and protect from light. Aggregation of NP is indicated by change of color solution and an increase in the absorption of the visible spectrum.