

Product Number: 1AG



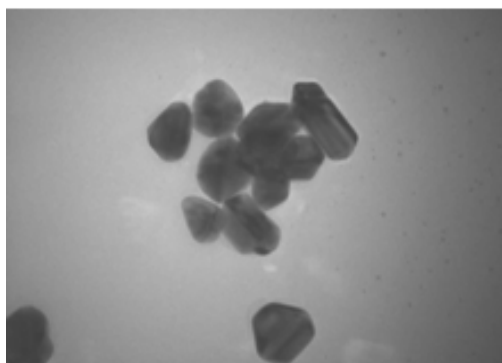
Description: Ag nanoparticles can be supplied in citrate-stabilized solution at different concentrations or in solid form upon request.

Application: Ag NP are: used in biosensors and assays as biological tags in molecular diagnostics; incorporated in footwear, paints, wound dressings, appliances, cosmetics, and plastics for their antimicrobial properties; integrated into plastics, composites, and adhesives to enhance thermal and electrical conductivity; used to efficiently harvest light and for enhanced optical spectroscopy including Surface Enhanced Fluorescent Spectroscopy and Surface-Enhanced Raman Scattering (SERS).

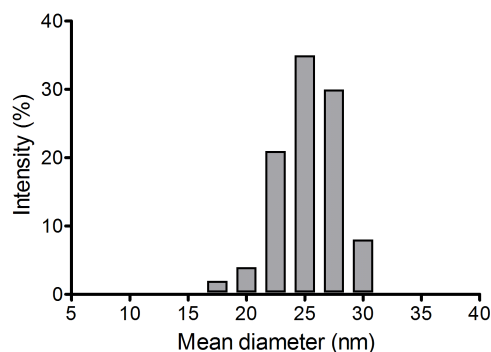
Properties:

	Colloidal solution
Color	pale yellow liquid
Morphology	nearly spherical
pH	6 – 7
Particle Size	25 nm
UV Absorption	λ max 416 nm

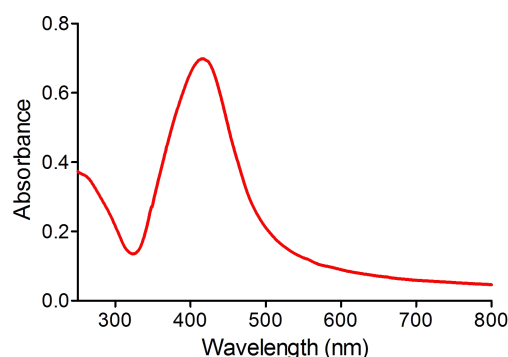
Quality Control of Ag nanoparticles:



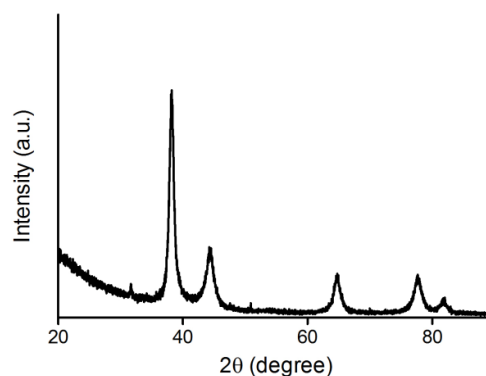
TEM analysis



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 nanoparticles is indicated by change of color solution and an increase in the absorption of the visible spectrum.