

## CANdot® Series G

**CANdot® Series G:** gold nanoparticles of spherical nature. Due to our special production technique of monodisperse and homogeneously dispersed water soluble gold nanoparticles, our CANdot® Series G particles are exceptionally stable in various kinds of conditions. The particles can be highly diluted to femto molar concentration or condensed to 10% solution forming oily dispersions without any loss of performance.



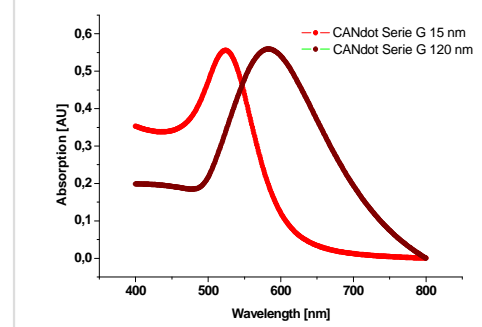
CANdot® Series G synthesized in continuous batch

Gold nanoparticles provide localized surface plasmon resonance (LSPR). This is the source of their extraordinary high molar extinction coefficient and the range of visible light scattering. These phenomena are used in biotech applications like immunoassays, dark field microscopy and confocal microscopy. The high metal density of gold nanoparticles is used in X-ray analysis. Biosensors are easily formed by use of the thiol surface reactivity of our sterilized gold nanoparticles.

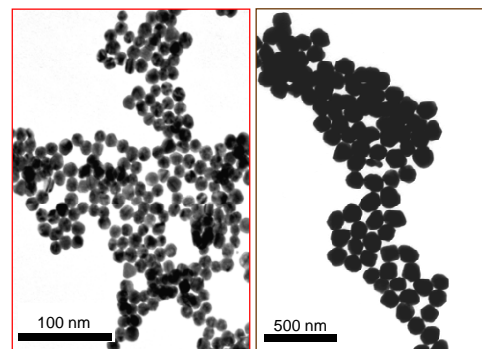
Features		Applications	
Material	Au, citrate stabilized	Material sciences	Surface coatings
Particle size [nm diameter]	10; 15; 20; 30; 40; 50; 60; 70; 80; 90; 100; 120		electric conductivity
Solubility	Water	Biotechnology	Protein binding
Concentration	100 µg Au/ml		Thiol chemistry
Particle size distribution	< 10%	In-vitro diagnostics	Composition of Biomarkers
Stability	> 1 year at 4 °C		Optical Absorption (LSPR)

### CANdot® Series G – Products

- ✓ water dispersed sol
- ✓ custom bioconjugate
- ✓ biofunctionalization kit
- ✓ Ready to use poly-histidine detection reagent



Absorption spectra of CANdot® Series G  
15 nm 150 µg/ml (red)  
120 nm 30 µg/ml (brown)



TEM images of CANdot® Series G  
A) 15 nm; B) 120 nm diameter

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