

Center for Applied Nanotechnology

CANdot® Series G

CANdot® Series G: citrate stabilized gold nanoparticles.

Gold nanoparticles (AuNPs) provide localized surface plasmon resonance which is the source of their extraordinary high molar extinction coefficient and visible light scattering. This phenomenon is used in biotech applications like Immunoassays (LFIA, ELISA, Western) or cell targeting assays (Dark Field Microscopy or FACS). High metal density is used in X-ray analysis methods (μ CT, TEM). Biosensors or molecular probes are easily formed utilizing the thiol surface reactivity of our AuNPs. CAN offers citrate and PEG stabilized AuNPs, a ready to use Western Blot reagent (His Detect) and an antibody conjugation kit.

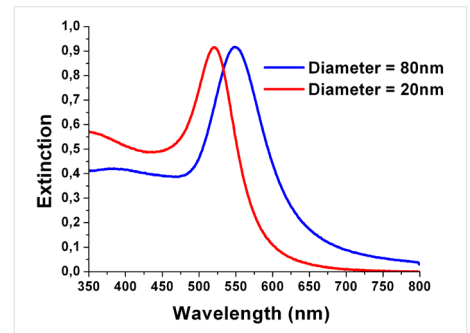


CANdot® Series G synthesized by a seeded growth approach

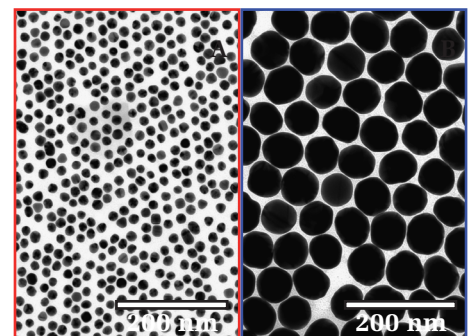
Customers benefit from CAN's unique production technique, which allows size controlled growth of highly monodisperse, sterilized AuNPs. The spherical particles are water soluble and highly stable in biological and technical applications. Supreme quality and performance are given from femto- to micro molar concentrations.

CANdot® Series G – products

- water dispersed solution
- His Detect
- Conjugation Kit
- custom conjugation service
- custom particle sizes possible



Absorption spectra of CANdot® Series G



TEM images of CANdot® Series G
A) 20 nm; B) 80 nm diameter

Features		Applications	
Material	Au, citrate stabilized	Material sciences	surface coatings
Standard particle size	20; 40; 60 and 80 nm in diameter	Biotechnology	thiol chemistry
Solubility	water		protein binding
Standard concentration	100 μ g Au/mL 10% (w/v) optional	Detection	optical absorption (LSPR)
Particle size distribution	< 10%		electron contrast (TEM, CT)
Stability	> 1 year at 4 °C		darkfield spectroscopy

CAN GmbH
 Grindelallee 117
 20146 Hamburg, Germany
 T +49.40.42838 - 4983
 F +49.40.42838 - 5797
 info@can-hamburg.de
 www.can-hamburg.com

Contact (email)
 lifescience@can-hamburg.de