

TECHNICAL DATA SHEET

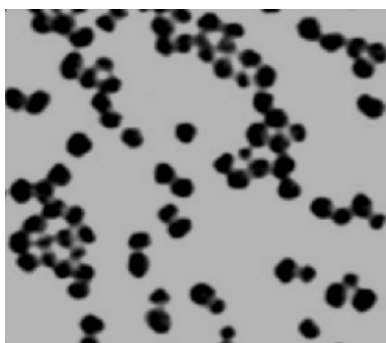
NANOCS™ Gold Nanoparticles, Protein A coated

Catalog Numbers: GP2,3,5,10,15,20,30,40,50,60-PA-1

Synonym: Protein A Gold, Protein A Colloidal Gold, Protein A Gold Particles, Protein A Gold Beads

Description:

Protein A coated gold nanoparticles (Protein A Gold) from Nanocs can bind to IgG protein with high affinity. **Protein A** is a 42 kDa surface protein originally found in the cell wall of *Staphylococcus aureus*. Protein A has strong binding affinity towards immunoglobulins. Our **protein A** gold nanoparticle conjugate has very narrow size distribution (<15%) and good stability. These spherical functional gold particles were made from chemical reduction method and **protein A** was covalently attached to the gold nanoparticle surface. Our protein A gold particles are useful to detect various biomolecules in SEM, TEM, light microscopy and blotting.



Storage Conditions:

Protein A gold particles should be stored at 2~8 °C for best use.

Particle Concentration:

Particle Size (nm)	Concentration (mg/mL)	Particles/mL
2	0.5	7.5×10^{15}
3	0.5	6.0×10^{15}
5	0.5	2.5×10^{14}
10	0.5	2.8×10^{13}
15	0.5	6.0×10^{12}
20	0.5	3.5×10^{12}
30	0.5	1.0×10^{12}
40	0.5	4.5×10^{11}
50	0.5	2.3×10^{11}
80	0.5	1.3×10^{11}
100	0.5	5.5×10^{10}

Product Specifications:

- Appearance: Red, purple red or orange liquid depends on size;
- Composition: Protein A Gold Nanoparticle conjugates in 50 mM phosphate buffer, pH 7.4 with 10% glycerol, 0.1% BSA and 0.01% sodium azide;
- Particle size: 2~100 nm as labeled;
- Concentration: 0.05% (w/v) based on Au.
Around 25~50 µg protein A per mL solution.

This product is for research use only and is not intended for use in humans or for diagnostic use.

To Order:

Order online: www.nanocs.net

Order by Email: sales@nanocs.com

Order by phone: 1(800) 388-4221; 1(888) 908-8803

For more information, visit www.nanocs.net