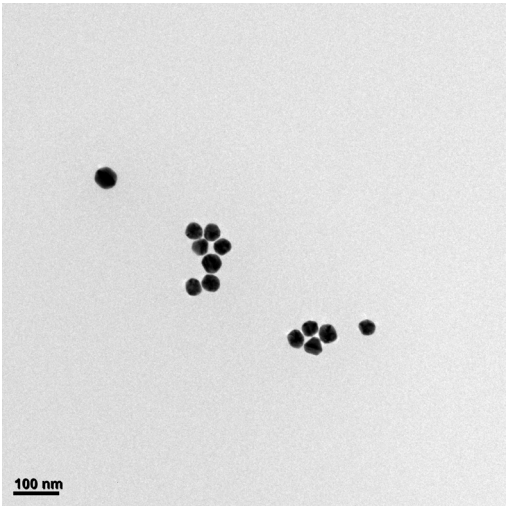
Bangs Laboratories
BEADS ABOVE THE REST

Colloidal Gold

Product Data Sheet 900

DESCRIPTION

Bangs 40nm colloidal gold is a high quality suspension of gold nanoparticles in preservative-free DI water. Bangs manufactures colloidal gold at large scale in a controlled fashion under our ISO 13485:2016 quality management system. Bangs 40nm colloidal gold offers superior performance in lateral flow assays.



Bangs Labs 40nm Colloidal Gold

CHARACTERISTICS

Nominal Diameter:	40nm
Diameter Spec:	37 - 43nm
Optical Density A520nm:	OD1 (~0.01% solids in DI water)

STORAGE AND STABILITY

Store at 2-8 °C. Freezing of particles may result in irreversible aggregation and loss of binding activity. Ensure that the colloid is well-dispersed prior to use, as particles are expected to settle during storage. If stored properly the shelf life of Bangs gold nanoparticles is 12 months from date of manufacture. Use within one month of opening each bottle.

SAFETY

Please consult the Safety Data Sheet for information on safety and handling.

REFERENCES

Das, M., Shim, K. H., An, S. S., & Yi, D. K. (2011). Review on gold nanoparticles and their applications. *Toxicology and Environmental Health Sciences, 3(4), 193-205.* https://doi.org/10.1007/s13530-011-0109-y

Jazayeri, M. H., Amani, H., Pourfatollah, A. A., Pazoki-Toroudi, H., & Sedighimoghaddam, B. (2016). Various methods of gold nanoparticles (GNPs) conjugation to antibodies. *Sensing and Bio-Sensing Research, 9, 17-22.* https://doi.org/10.1016/jsbsr.2016.04.002

Singh, V., Nair, S. P., & Aradhyam, G. K. (2013). Chemistry of conjugation to gold nanoparticles affects G-protein activity differently. *Journal of Nanobiotechnology, 11(1).* https://doi.org/10.1186/1477-3155-11-7

Hermanson, G. T. (2013). *Bioconjugate Techniques. Academic Press.*

ORDERING INFORMATION

Cat. Number	Description	Sizes
GOLD40	40nm Gold Colloid	25mL, 100mL, 500mL

Order online anytime at **www.bangslabs.com.**

