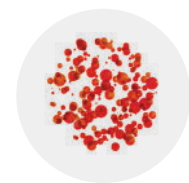


# Gold Colloid



Citrate-stabilized spherical gold nanoparticles are well suited for a wide range of life science applications, including lateral flow assays, microarrays, biosensors, AC-SINS, and microscopy. BBI's manufacturing process has been expertly honed over four decades to ensure exceptional shelf life, stability, and uniformity.

## BBI: Leading in Sustainability, Grounded in Quality

At BBI, sustainability initiatives integrated within our ISO-compliant quality management system underpin a controlled and dependable supply chain. Gold nanoparticles are manufactured for performance and reliability at any scale.

## Gold Nanoparticle Offering

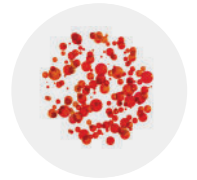
Gold colloid is a versatile and critical reagent utilized in a wide array of life science applications. BBI offers spherical nanoparticles ranging in size from 5nm up to 250nm, all with a shelf life of 24 months from date of manufacture.



Size of Gold Nanoparticle	Mean Particle Size Range	Maximum Acceptable %CV	Number of Odd Shapes per 100 Particles
5nm	4.5 - 6.0 nm	15%	≤5
10nm	9.0 - 11.0 nm	10%	≤5
15nm	14.0 - 16.5 nm	10%	≤5
20nm	19.0 - 21.0 nm	8%	≤5
30nm	28.0 - 32.0 nm	8%	≤5
40nm	37.0 - 43.0 nm	8%	≤5
50nm	47.0 - 53.0 nm	8%	≤5
60nm	57.0 - 63.0 nm	8%	≤5
80nm	77.0 - 85.0 nm	8%	≤10
100nm	96.0 - 104.0 nm	8%	Not Applicable
150nm	145.0 - 155.0 nm	8%	Not Applicable
200nm	194.0 - 204.0 nm	8%	Not Applicable
250nm	242.0 - 258.0nm	8%	Not Applicable

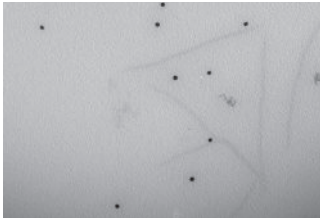


[Order your evaluation sample today](#)

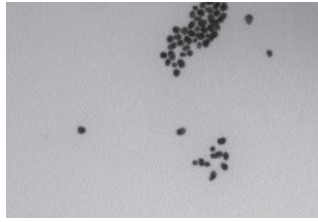


## Quality and Reproducibility

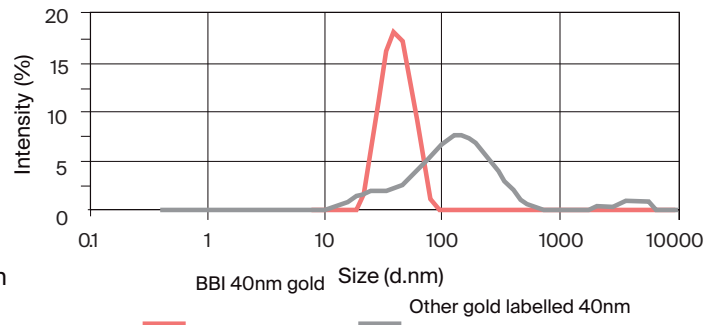
BBI Gold



Competitor's Gold

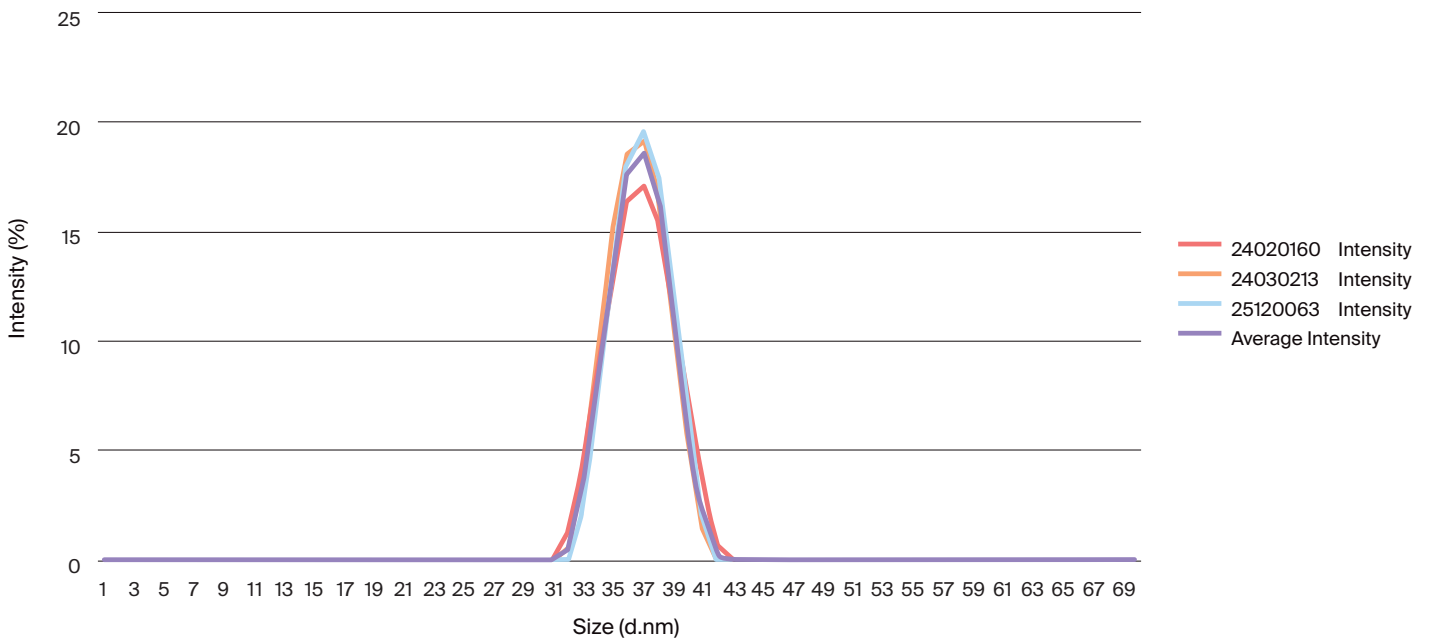


Size Distribution by Intensity

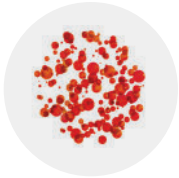


BBI's unique manufacturing technique allows for the production of large batches of gold to a high level of reproducibility of size, dispersion and shape. This ensures a firm foundation for conjugation and peace of mind that your rapid assay will provide reliable results. This is not the case for all gold nanoparticles.

Size Intensity Distribution: Three Lots - Highly Uniform Size



[Order your evaluation sample today](#)



## Why BBI?

Used in over 400 million assays every year, our gold manufacturing technique guarantees:

**High stability** – 2 year shelf life from date of manufacture saving you time and wastage

**Sensitivity** – with  $\leq 5\%$  uneven shapes and a CV of  $\leq 8\%$ , the uniform shape and size of BBI gold ensures even antibody binding, giving reliable results in your assay

**Scalability** – our batch sizes go up to 350L + to ensure you have continuous supply

**Quality** – adhering to ISO 13485 standards BBI gold must pass strict quality procedures before its released to our customers, guaranteeing impressive performance characteristics at scale



## Where innovation meets sustainability

We are proud to be awarded Gold EcoVadis sustainability rating, placing us in the top 5% of companies globally.

This recognition reflects our commitment to responsible practices across environmental impact, ethics, labor and human rights, and sustainable procurement.



### Related Products

#### Polystreptavidin

BBI's polymerized recombinant streptavidin is ideal for lateral flow applications often supporting increased assay sensitivity and lower reagent usage.

#### High OD Gold

High OD gold can be used to simplify the conjugation procedure. By removing centrifugation steps in the concentration process there may be an opportunity to reduce production time, labour costs and waste. Our High OD gold nanoparticles are available in various sizes and concentrations. Up to OD100.



**Order a sample today**

email: [sales@bbisolutions.com](mailto:sales@bbisolutions.com)

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