

Gold Nanoparticles

Storage

Product	Storage	Shelf Life
All bare spherical, nanorod	4 degree	6 months
Functionalized products	4 degree	3 months
Organic	4 degree	3 months

Do not freeze the nanoparticle products.

In general once conjugated, neutravidin and custom conjugations should see much greater shelf lives than when left unconjugated.

Shipping

We ship products using sf-express for orders. They are shipped at RT, or if the product requires, in cold packs.

Sonicate

When stored for a long period of time gold Nanoparticles in solution will naturally sediment at the bottom of the flask due to size or agglomerate due to ionic, magnetic, or chemical induced attractions, which is especially true for larger particle sizes.. As opposed to aggregation, these are all natural occurrences that are reversible through sonication. Depending on the size, charge, and other parameters, re-suspend the sedimented particles by swirling until a homogenous solution is obtained.

In order to minimize these reversible occurrences, please make sure to store and handle your product as recommended in the Storage and Handling Instructions.

We typically use a Ultrasonic Cleaner for 15 seconds to 1 minute. We make sure the water level is at a point where you can see visible sonication ripples in the water. Alternate sonicating and shaking/mixing of the microcentrifuge tube to resuspend gold nanoparticles into solution.

Washing

The easiest way to remove possible contaminants in the nanoparticles solution is by centrifugation. Centrifugation force is dependent on size of the gold nanoparticles and should be adjusted according to below Table for optimal performance.

Diameter (nm)	Speed(g)	Time (min)
5	100,000	30
10	17,000	60
15	17,000	30
20	6500	30
30	4500	30
40	2500	30
50	2000	30
60	1125	30
80	600	30
100	400	30
150	180	30
200	100	30

NOTE: Since non-functionalized gold nanoparticles are sensitive to salt-containing buffers, re-suspension should always be performed in ultra-pure water to prevent irreversible aggregation. To prevent aggregation it may be necessary to add Tween 20 at a concentration of 0.025% w/v.

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