



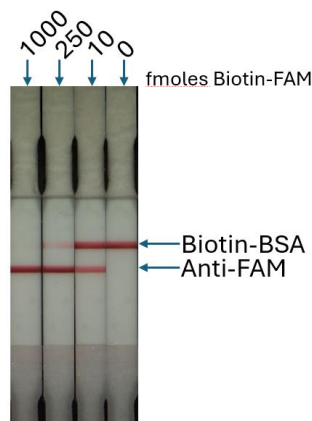
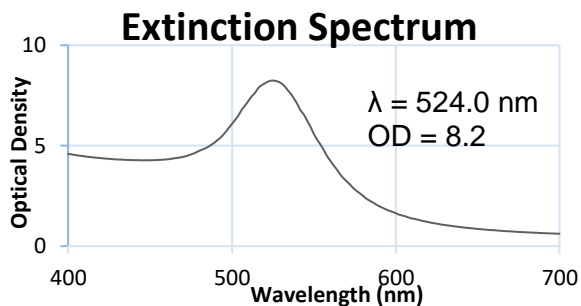
Website: www.attogene.com

40 nm Streptavidin Functionalized Gold NanoSpheres

Lot #: 202410030
Product #: AU2017
Retest Date: October 2025

Gold	Product Specs
Gold Volume	1.25mL
Diameter:	40.0 ± 2.5 nm
SPR** Peak:	524.0 nm ± 3 nm
Optical Density:	8.2
pH	7.4

Streptavidin Gold Running Buffer	Product Specs
Volume	50mL
pH	7.6



Suggested Storage and Handling Procedures

Store at 2-8 °C away from light. Storage at low temperature increases shelf life and stability of the nanoparticles, preventing changes in shape and/or size.

DO NOT FREEZE. Freezing will induce irreversible aggregation of particles and destroy the product.

Bring to room temperature and shake well before each use. Particles may settle to the bottom over time. Shake vigorously for 30 seconds to ensure particles are fully dispersed before use. Visually inspect to ensure all product has redispersed. If particulates or plating remain, sonicate for 5 minutes in a sonicator bath, shake, and repeat as necessary. To minimize heating, do not sonicate for periods longer than 5 minutes.

Dilution. We suggest diluting the particles with a 150mM PBS, 0.01% Tween-20, pH 7.4 buffer

Quality Control. If there are visible particulates or a change in the color or intensity of the dispersion, the nanoparticles may have aggregated. Filter the solution using a $\leq 0.45 \mu\text{m}$ polyvinylidene fluoride filter and save the filtered product. Check quality with spectrophotometry and electron microscopy.

Functional test: Relative sensitivity to the biotin-DNA-FAM oligonucleotide which is captured by an anti-FAM/FITC antibody. Any unbound strep gold will flow past the test line and bind to the biotin-BSA conjugate control line.

General Use Guide for Oligonucleotides:

For the best results with oligonucleotides:

1. Add 100-200uL of running buffer.
2. Add ~5uL of 8.2 OD gold to the well.
3. ~2pmol of oligonucleotide
4. Let assay run for 10-30 minutes.

NOTE: To spray or spotting onto conjugate pads, please inquire for recommendations (sales@attogene.com).