

*Gold nanoparticles specifically engineered for conjugation
to your antibodies, proteins, and nucleic acids*

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2 DIFFERENT NANOPARTICLES



40 nm Gold Nanospheres
The industry standard



150 nm Gold Nanoshells
The future standard

4 DIFFERENT SURFACES



Carbonate
Efficient adsorption



NHS
Rapid covalent conjugation
for small-scale sweeping



Carboxyl (–COOH)
Reliable covalent conjugation



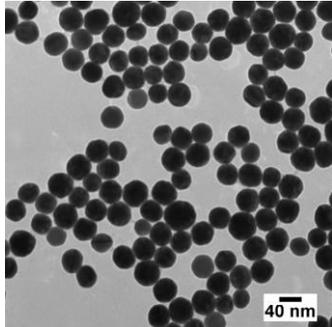
Streptavidin
For biotin coupling

Particle Type	Surface	Concentration	SKU
40 nm Gold Nanospheres	Carbonate	4 OD	AURR40
40 nm Gold Nanospheres	NHS	20 OD*	AUNR40
40 nm Gold Nanospheres	Carboxyl	20 OD	AUXR40
40 nm Gold Nanospheres	Streptavidin	10 OD	AUIR40
150 nm Gold Nanoshells	NHS	20 OD*	GSNR150
150 nm Gold Nanoshells	Carboxyl	20 OD	GSXR150
150 nm Gold Nanoshells	Streptavidin	10 OD	GSIR150

* When reconstituted – provided dried.

WHY CHOOSE NANOCOMPOSIX?

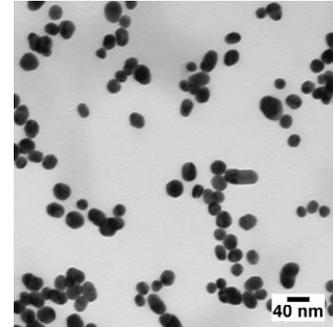
nanoComposix 40 nm Gold



Average Diameter 40.4 nm
Standard Deviation 3.5 nm
CV 8.6%

NanoComposix's particles have better shape and size consistency, providing more reliable assay performance

Supplier B 40 nm Gold



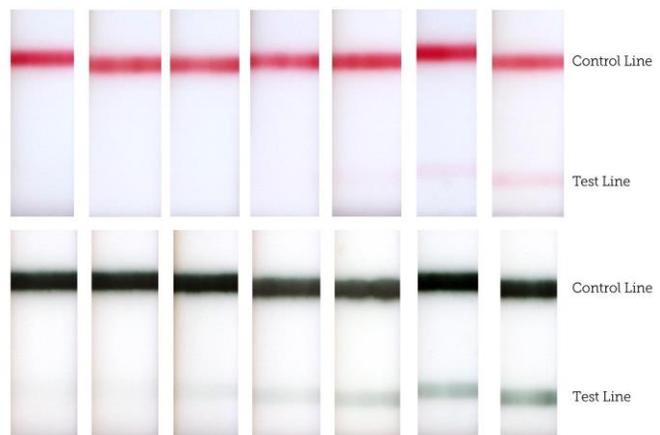
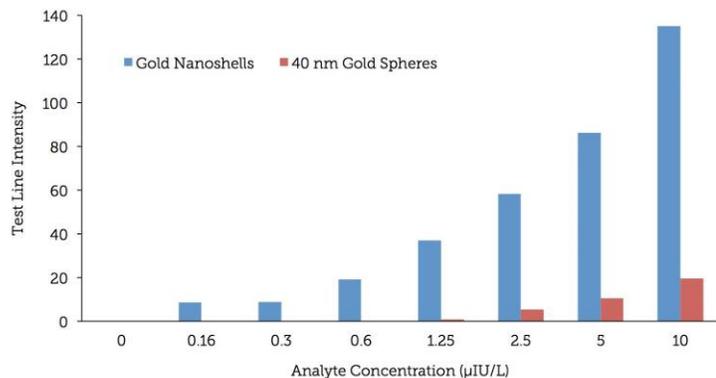
Average Diameter 27.6 nm
Standard Deviation 6.5 nm
CV 23.7%

WHY CHOOSE NANOSHELLS OVER NANOSPHERES?

Although 40 nm gold nanoparticles have been the industry standard for decades, some more recently developed nanoparticle types offer unique advantages that can be harnessed for greater sensitivity and for their unique colors.

NanoComposix specializes in plasmonic metal nanoparticles with tailored optical signatures that result from the particle's specific size, shape, and material type. Gold nanoshells, for instance, feature a silica core coated with an outer gold shell. The core and shell sizes can be tuned to absorb and scatter specific wavelengths of light. By using carefully selected particle dimensions, gold nanoshells have demonstrated dramatic increases in sensitivity for lateral flow assays when compared to 40 nm gold spheres.

Please visit stratech.co.uk for more info.



Lateral flow assay with half-log dilutions of hormone analyte showing the increase in sensitivity when using gold nanoshells (blue) as the probe vs. 40 nm spherical gold (red).