



## Methyl Silver Nanoparticles-PEG5K PRODUCT DATA SHEET

### Methyl Silver Nanoparticles-PEG5K

#### Description

Cytodiagnostics methoxy silver nanoparticles have precisely engineered surface chemistry that renders them inert in most applications.

This inert property allows these nanoparticles to be used as excellent control samples when in combination with one of our many other functionalized nanoparticles. In applications where the nanoparticles are not being used as controls, the surface chemistry enables them to be used in solutions with much higher salt concentrations relative to the corresponding standard nanoparticles.

Our methylated silver nanoparticles are available in 8 different sizes ranging from 10 nm ~ 100 nm and are also available with 2 different spacer lengths (2 kDa and 5 kDa), allowing for better optimization.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: [www.abvigen.com](http://www.abvigen.com) Phone: +1 929-202-3014 Email: [info@abvigenus.com](mailto:info@abvigenus.com)

#### Characteristics

Core diameter: 10 ~ 100 nm

Size dispersity: Coefficient of Variance (CV) < 18%

Surface functional group: PEG5K-CH<sub>3</sub>

Concentration: 1 mg/ml

Polydispersity Index (PDI): < 0.25

Absorbance ( $\lambda_{max}$ ): 390 ~ 490 nm

Supplied in ddH<sub>2</sub>O

#### Properties

The protective inert PEGylated layer of Cytodiagnostics methylated silver nanoparticles make them ideal for use in applications that requires stringent control of non-specific protein binding to the nanoparticle surface.



### Features

Superior size distribution compared to the leading competitor; available from 10 nm to 100 nm.

Precisely engineered surface with low protein binding characteristics.

### Application

Ideal as an inactive control to other functionalized silver nanoparticles, e.g. carboxyl, amine and biotin.

### Storage

This product should be stored away from light at 4°C. **DO NOT FREEZE.** If stored as specified, the product is stable for at least 4 months.

### Handling

When stored for a long period of time silver nanoparticles may sediment at the bottom of the vial, which is especially true for larger particle sizes. Prior to use, re-suspend the sedimented particles by swirling until a homogenous solution is obtained.

### Note

These products are for R&D use only, not for drug, household, or other uses.

### Ordering Information

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