

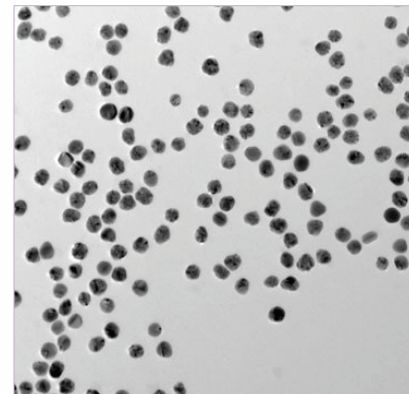
# Silver Nanoparticles, Reactant-Free

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## Silver Nanoparticles, (0.02mg/ml in 2mM sodium citrate) reactant free\*

>99% Reactant Free\*, in citrate buffer

Cat. #	Description	$\lambda$ max (nm)	Conc.
47-0655	10nm	390-400	0.02mg/ml
47-0658	20nm	405	0.02mg/ml
47-0660	30nm	410	0.02mg/ml
47-0663	40nm	416	0.02mg/ml
47-0665	50nm	425	0.02mg/ml
47-0668	60nm	430	0.02mg/ml
47-0670	80nm	457	0.02mg/ml
47-0672	100nm	490	0.02mg/ml



\*Reactant free – Less than 1% of reactants remaining from the manufacturing process.

## Silver nanoparticles (0.02mg/ml in 2mM sodium citrate)

Cat. #	Description	$\lambda$ max (nm)	Conc.
47-0620	10nm	390-400	0.02mg/ml
47-0623	20nm	405	0.02mg/ml
47-0626	30nm	410	0.02mg/ml
47-0630	40nm	416	0.02mg/ml
47-0633	50nm	425	0.02mg/ml
47-0635	60nm	430	0.02mg/ml
47-0638	80nm	457	0.02mg/ml
47-0640	100nm	490	0.02mg/ml

### Description

Silver nanoparticles are an ideal alternative to gold nanoparticles due to their absorption maximum in the 400nm range, instead of 500nm for Gold Nanoparticles. Silver Nanoparticles retain the same protein and other ligand binding properties of Gold Nanoparticles.

Our silver nanoparticles are available in 8 different sizes ranging from 10-100nm, and are synthesized using a unique protocol. Our synthesis method produces monodisperse particles with a narrow and uniform size distribution (CV <13%).

### Features

- Absorption maximum in the 400nm range.
- Readily bind proteins and other ligands for conjugate and sensor development.
- Unagglomerated monodisperse particles.
- Uniform shape and narrow size distribution (CV <13%).
- Low batch- to batch variation in size and shape.

### Characteristics

Core diameter: Available from 10-100nm (Coefficient of Variance < 13%)

Concentration: 0.02mg/ml

Absorbance ( $\lambda$ max): 390-490nm

Supplied in 0.1mM Phosphate Buffered Saline (0.1X PBS). 10nm supplied in 2mM Sodium Citrate.

### Storage/Stability

This product should be stored at 4°C in the dark. Do not freeze. If stored unopened and as specified, silver nanoparticles are stable for at least 6 months.

### Precautions and Disclaimer

These products are for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet available online at [www.strem.com](http://www.strem.com) for information regarding hazards and safe handling procedures.

Visit [www.strem.com](http://www.strem.com) for new product information and searchable catalog.

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