

## GENERAL PROTOCOL FOR UNCONJUGATED GOLD PROBES

SPI Supplies 206 Garfield Avenue, West Chester, PA 19380, USA

## **SPI-Mark™ Unconjugated Colloidal Gold Probes**

## Typical protocol for the conjugation of gold particles to a protein

## **Sample protocol for conjugation:**

- 1. Clean all glassware (most important!).
- 2. Prepare aqueous protein solution at 0.1mg/ml.
- 3. Adjust SPI-Mark colloidal gold suspension pH > isoelectric point of protein.
- 4. Add enough protein (determined by titration) to stabilize the gold colloid. <u>SPI-Mark Silver Enhancement Kit</u> is required for 2nm and sometimes for 5 nm.
- 5. Add BSA to a concentration of 0.1%.
- 6. Centrifuge to concentrate and remove excess protein.
- 7. Centrifuge over a glycerol gradient to remove clusters.
- 8. Pool fractions and dilute to 30mg/ml protein in a suitable buffer for storage.

Revised: EER

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