CLAIMS

1. A method for producing polyethyleneimine capped silver nanoparticles, the method comprising:

mixing polyethyleneimie with a solvent to obtain a solution;

adding a pre-cursor to the solution to form a reaction mixture;

subjecting the reaction mixture to further mixing for a predetermined period of time at a predetermined temperature;

subjecting the reaction mixture to heat; and

isolating the polyethyleneimine capped silver nanoparticles from the reaction mixture.

2. A polyethyleneimine capped silver nanoparticles obtainable by the method of claim 1.

3. A composition comprising polyethyleneimine capped silver nanoparticles obtainable by the method of claim 1.