Bacteria preparation method

A frozen vial of bacteria stock was taken from a liquid nitrogen dewar and allowed to thaw in ice. 10 mL of LB broth (35g/L) was prepared in a sterile tube. The Sterile inoculating loop was then dipped into the thawed bacteria stock, and gently swirled in the LB broth. The tube was loosely capped to allow gas exchange, and placed in a shaker incubator set to 37°C. The culture was incubated overnight with continuous shaking. The culture turned turbid, indicating bacterial growth.

A summary of the effect of reaction parameters on optical properties of AgNPs.

Parameter	Variation	SPR Peak (nm)
Temperature (°C)	75	426
	50	429
	25	431
Time (min)	60	440
	30	438
	15	437
Precursor conc (mM)	6	434
	3	426
	1	415
PE: Ag^+ ratio (mL)	20:80	434
	10:90	433
	5:95	430

*PE: Ag^+ indicates the volume of plant extract to silver ion solution