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**Highlights**

Cellulose/silver nanocomposite fibers were prepared by in situ synthesis of Ag nanoparticles in cellulose fibers through direct hydrothermal reduction.

The cellulose/silver nanocomposite fibers exhibited good mechanical properties and antibacterial properties.

The cellulose/silver nanocomposite fibers would have great potential in antibacterial textile and wound handling due to easy industrialization.

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