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(57) Abstract :

The present invention relates generally to the field of nanomaterials. More specifically, the present invention relates to a method of preparation of silver nanoparticles that exhibits exceptional mosquitocidal activity. The inventors of the present disclosure surprisingly observed that the silver nanoparticles prepared by effecting reduction of a precursor of silver with the extract of seeds of Carica papaya exhibits exceptional mosquitocidal activity in comparison to silver nanoparticles prepared using extract of any other plant parts of Carica papaya. Accordingly, an aspect of the present disclosure relates to a method for preparation of silver nanoparticles that exhibits mosquitocidal activity, the method comprising the step of: reducing a precursor of silver using an extract of seeds of Carica papaya at an elevated temperature to effect preparation of the silver nanoparticles. Preferably, the present invention utilizes an extract of ripe seeds of Carica papaya.

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