

Antibacterial activity

Antibacterial activity of the crude leaf extract and Ag NPs results were shown in Table 1 and the values were expressed as Mean \pm SD. The zone of inhibition by Ag NPs prepared from *M.balbisiana* leaf extract show maximum inhibition on *B.cereus* and *E.coli* than the other extracts.

CONCLUSION

In conclusion, the bio-reduction of aqueous Ag⁺ ions by the leaf extract of the three Indian plants has been demonstrated. The reduction of the metal ions through leaf extracts leading to the formation of silver nanoparticles of fairly well-defined dimensions. In the present study, we found that leaf extract of *M.balbisiana* can be used good source for synthesis of silver nanoparticles. This green chemistry approach toward the synthesis of silver nanoparticles has many advantages such as, ease with which the process can be scaled up, economic viability, etc. Applications of such eco-friendly nanoparticles in bactericidal, wound healing and other medical and electronic applications, makes this method potentially exciting for the large scale synthesis of other nano particles.

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