

## Invitro Study of Anti-Leishmanial Property of Nigella Sativa Methanolic Black Seed Extract

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**Abstract :** This study aims to evaluate the antileishmanial activity of Nigella sativa black seed extract. This well-known plant extract was taken from the botanical garden of Kashmir. Materials and Methods: The methanolic extracts of these plants were screened for their antileishmanial activity against Leishmania major using 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide assay or MTT assay. Results: The methanolic extract of Nigella sativa showed potential antileishmanial activity at an inhibition% value of  $80.29\% \pm 0.65\%$ . IC 50 was calculated after 48 hours to be  $964.3 \mu\text{g/ml}$ . Conclusion: Considering these results, these medicinal plants from Kashmir could serve as potential drug sources for antileishmanial compounds.

**Keywords :** MTT assay, antileishmanial, cell viability, Nigella sativa

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