



Anti-bacterial activities of Cinnamon and Carom seeds extract on *Enterococcus faecalis* and *Shigella* species

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Abstract : *This study reports the anti-bacterial properties of two spices, cinnamon (*Cinnamomum verum*) and carom seeds (*Trachyspermum ammi*) on two pathogenic bacterial strain *Enterococcus faecalis* and *Shigella* species. Bacterial strains collected from SRL Laboratory, Patna were sub-cultured in CRL (Central Research Laboratory) of Patna women's college and further necessary bio-chemical test were also done to*

*confirm the species. TSI (triple sugar iron) test confirmed *Shigella*, 4% bile esculin agar test and salt tolerance test confirmed *Enterococcus faecalis*. The aqueous extracts of the spices gave maximum result in the crude concentration (cinnamon on *Enterococcus faecalis* - 22.5 ± 0.5 and carom seeds - 19.6 ± 0.5) (cinnamon on *Shigella* - 20.6 ± 0.5 and carom seeds - 22.5 ± 0.5). The study suggested that maximum inhibition was shown in crude extract of *Cinnamomum verum* on *E. faecalis* and *Trachyspermum ammi* on *Shigella*. The present study is an approach to analyse the antibacterial properties of Cinnamon and carom seeds against two pathogenic microbes. It also suggests the potential of these spices as a good means of conventional medicine which can be used to develop an advanced drug for future pharmaceutical uses.*

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