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## In-vitro analysis of anti-microbial, anti-fungal & anti-oxidant activity of polyherbal formulation -Dashanga Agada

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**D**ashanga Agada' is one of the frequently prescribed herbo-mineral compound medications in variety of ailments including venomous bites and stings in south India especially in Kerala. The compound preparation is a contribution of Vagbhata's Ashtanga Hridaya, Uttarantra, chapter 37/28 which indicates its benefits and versatile applicability in various poisonous infectious insect bites. Keeping this in mind, the present study was planned to explore the in vitro antimicrobial, anti-fungal and anti-oxidant activity of this formulation. Agar-well method was used for screening in vitro antibacterial and antifungal activity. Zones of inhibition were observed in disc diffusion for antimicrobial investigation against selected standard bacterial strains of *E. Coli*, *Bacillus Subtilis*, *Staphylococcus aureus*, *Salmonella typhi* and *Shigella*, and fungal strains *Asperigillus niger* and *Candida albicans*. Cefpodoxime and Fluconazole were used as anti-bacterial and antifungal control with concentration of 10mg/ml respectively to compare the effects. The formulation - 'Dashanga Agada' showed average zone of inhibition ranging from 17-33 mm suggesting its activeness against the tested microorganisms and confirmed its antimicrobial perspective. Anti oxidant activity was calculated in terms of Ascorbic acid which was observed as 10.91 again suggesting its free radical scavenging potentials.

### Biography

Sandeep V. Binorkar is working as an Assistant Professor in the Dept. of Agadatantra & Vyavahara Ayurveda at Govt. Ayurveda College, Nanded, Maharashtra state, India. He has pursued his Post graduate [MD (Ayu)] in Agadatantra (Ayurvedic Toxicology) from the University of Calicut, Kerala state. He has honoured with 6 National Awards including Kerala Ayurveda Research Award-2007 for his research work during Post graduation. With teaching experience of 9 yr and 6 months, he has worked for various renowned institutes of Ayurveda over the country. Published more than 25 research articles in peer reviewed international journals, authored 5 books, has presented in number of National and international conferences and is one of the distinguished faculty on the editorial /reviewer board of various International journals of Ayurveda, Yoga, Alternative Medicine, Forensic Medicine & Toxicology from the country and abroad.

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