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## **Exploration of invitro Anti-bacterial activity of Prathapamarthanda Rasa W.S.R Infectious Fever**

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### **Abstract:**

*Rasasastra*, a branch of Ayurvedic pharmaceuticals, focuses on the use of minerals, metals, precious stones, and certain poisonous herbs in treating diseases and promoting rejuvenation. Infectious diseases, caused by bacteria, viruses, fungi, or parasites, continue to pose a major global health challenge despite advancements in medical science and hygiene. Antibiotics, while effective, often become less useful due to the development of drug resistance. In contrast, herbo-mineral preparations, known as *Rasoushadhies*, have been used for centuries as antimicrobial agents, though their exact mechanisms are not fully understood. This study explores the antibacterial activity of *Prathapamarthanda Rasa*, a herbo-mineral preparation from *Rasendrasarasangraha Jwarachikitsa*, traditionally used for treating fever. The invitro antibacterial activity was tested against four common fever-causing pathogens: *E. coli*, *Salmonella para-typhi*, *Enterococcus faecalis*, and *Pseudomonas aeruginosa* using the Agar well diffusion method. The results demonstrated significant efficacy against *E. coli*, *Salmonella para-typhi*, and *Pseudomonas aeruginosa*, though its effect on *Enterococcus faecalis* was limited. These findings suggest that *Prathapamarthanda Rasa* has promising antibacterial properties, warranting further research to assess its clinical potential.

**KEY WORDS:** *Rasasastra*, *Prathapamarthanda Rasa*, Antibacterial study, Fever, *Rasendrasarasangraha*.

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