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ANTIMICROBIAL ACTIVITY SCREENING OF RHYNCHOSTEGIUM MEGAPOLITANUM

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ABSTRACT

In North America, Europe and China, bryophyte have been used as medicinal purpose since 400 years ago. Although antifungal and antibacterial potential of some bryophyte species are determined, most of them are not investigated. Broad range antimicrobial activity of bryophyte species is became a crucial, therefore related research must be applied. In this research, antimicrobial potential of *Rhynchostegium megapolitanum* against a wide range of microorganisms was analyzed. The analyses contain ethanol extract of *R. megapolitanum* against 17 bacterial and 1 fungal species. These microbial strains include *Bacillus*, *Enterobacter*, *Enterococcus*, *Escherichia*, *Klebsiella*, *Listeria*, *Pseudomonas*, *Salmonella*, *Staphylococcus* and *Candida* geniuses. Twelve of them are standard species and they are important for exact determination of antimicrobial screening. 0.34, 0.68 and 1.13 mg samples were prepared and their activity was analyzed by using agar diffusion method. Our present study has shown that *R. megapolitanum* has antimicrobial activity against eight of the studied species. Antimicrobial potential of *R. megapolitanum* are being investigated for the first time.

KEYWORDS

Rhynchostegium megapolitanum, bryophyte, antimicrobial activity, disk diffusion method, ethanol extract.

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