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Antimicrobial activity screening of *Pseudevernia furfuracea*

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Lichens are symbiotic organisms between algae and fungi. Since ancient time, they have been utilized as folk medicine and they can survive extreme conditions thanks to unique secondary metabolites. These biochemicals are significant for antiviral, antibiotic, antimitotic, cytotoxic and anti-inflammatory effects. *Pseudevernia furfuracea* is a lichen species and it was collected from Yomra, Trabzon. In vitro performance of *P. furfuracea* ethanol extract was researched against 17 bacteria and 1 fungi by using disk diffusion method. 0.4, 0.8 and 2.0 mg samples were prepared in order to determine the broad range antimicrobial potential. These microbial species include *Bacillus*, *Enterobacter*, *Enterococcus*, *Escherichia*, *Klebsiella*, *Listeria*, *Pseudomonas*, *Salmonella*, *Staphylococcus* and *Candida* species. The results were presented that *P. furfuracea* has antimicrobial activity against thirteen of the studied strains. Five of them are highly susceptible (higher than 15 mm); five of them are moderately susceptible (14-10 mm) and three of them are low susceptible (9-7 mm).

Keywords: *Pseudevernia furfuracea*, lichen, antimicrobial activity, disk diffusion method, ethanol extract