Antimicrobial Activity of Extracts of the Lichen *Xanthoparmelia pokornyi* and its Gyrophoric and Stenosporic Acid Constituents

Mehmet Candan[a], Meral Yılmaz[a,*], Turgay Tay[b], Merih Kıvanç[a], and Hayrettin Türk[b]

[a] Anadolu University, Department of Biology, 26470 Eskişehir, Turkey.
Fax: +90 222 320 49 10. E-mail: meralyilmaz@anadolu.edu.tr
[b] Anadolu University, Department of Chemistry, 26470 Eskişehir, Turkey

* Author for correspondence and reprint requests

Z. Naturforsch. **61 c**, 319–323 (2006); received October 17/December 1, 2005

The antimicrobial activity of the diethyl ether, acetone, chloroform, petroleum ether, and ethanol extracts of the lichen *Xanthoparmelia pokornyi* and its gyrophoric acid and stenosporic acid constituents has been screened against some foodborne bacteria and fungi. Both the extracts and the acids showed antimicrobial activity against *Aeromonas hydrophila, Bacillus cereus, Bacillus subtilis, Listeria monocytogenes, Proteus vulgaris, Staphylococcus aureus, Streptococcus faecalis, Yersinia enterocolitica, Candida albicans* and *Candida glabrata*. The extracts were inactive against the tested filamentous fungi. The MIC values of the extracts and the acids for the bacteria have also been determined.

Key words: Xanthoparmelia pokornyi, Gyrophoric and Stenosporic Acid, Antimicrobial Activity