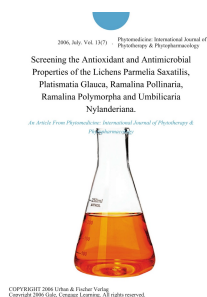


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SCREENING THE ANTIOXIDANT AND ANTIMICROBIAL PROPERTIES OF THE LICHENS PARMELIA SAXATILIS PLATISMATIA GLAUCA RAMALINA POLLINARIA RAMALINA POLYMORPHA AND UMBILICARIA NYLANDERIANA EBOOKS 2019



Author: Phytomedicine: International Journal of Phytotherapy u0026amp; Phytopharmacology

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Abstract The aim of this study is to investigate in vitro antimicrobial and antioxidant activities of the methanol extracts of *Parmelia saxatilis* (L.) Ach., *Platismatia glauca* (L.) W.L. Club. u0026amp; C.F. Culb., *Ramalina pollinaria* (Wesstr.) Ach., *Ramalina polymorpha* (Liljeblad) Ach. and *Umbilicaria nylanderiana* (Zahlbr.) H. Mag. Antioxidant activity was evaluated by two separate methods: scavenging of free radical DPPH and the inhibition of linoleic acid oxidation. Extracts of *Parmelia saxatilis*, *Platismatia glauca*, *Ramalina pollinaria* and *Ramalina polymorpha* did not exert any activity in both assays, whereas those of *Umbilicaria nylanderiana* provided 50% inhibition at 400.2 [micro]g/ml concentration in the former and gave 53% inhibition at 2 g/l concentration. Total phenolic constituents of extracts from lichen species tested (*P. saxatilis*, *P. glauca*, *R. pollinaria*, *R. polymorpha* and *U. nylanderiana*) were 1.0% (w/w), 1.1% (w/w), 1.0% (w/w), 0.8% (w/w) and (3.0% w/w), respectively (as gallic acid equivalent); implying that the observed activity could be related to the amount of polar phenolics. Extracts were also found to possess antimicrobial activity against some test bacteria and fungi and yeast.

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