Antiprotease and Membrane Stabilizing Activities of Extracts of Fagara Zanthoxyloides, Olax Subscorpioides and Tetrapleura Tetrapterata

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Abstract

The saline and alkaline extracts of Fagara zanthoxyloides, Olax subscorpioides and Tetrapleura tetrapterata were investigated for antiprotease and membrane stabilizing activities by spectroscopic procedures. Saline extracts of these plants stabilized human red blood cell membrane subjected to hypotonic- and heat-induced lyses. The results revealed that the degree of membrane stabilization was 84% for F. zanthoxyloides while T. tetrapterata and O. subscorpioides exhibited 70% and 63.2%, respectively. Also, sodium hydroxide extracts of the three plants exhibited antiprotease activity. A 1:5 dilution of F. zanthoxyloides gave 80% inhibition while undiluted extracts of O. subscorpioides and T. tetrapterata showed 96% and 73% inhibitions, respectively.

Keywords: Antiprotease, Anti-Inflammatory, Hypotonic Lysis, Antinutritional Factors

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