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***Lycium europaeum* Linn as a source of polysaccharide with *in vitro* antioxidant activities and *in vivo* anti-inflammatory and hepato-nephroprotective potentials**

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ABSTRACT

ETHNOPHARMACOLOGICAL RELEVANCE

Lycium europaeum Linn. is widely used to treat the burning of the skin and recognized as a medicinal plant having various biological activities.

AIMS OF THE STUDY

The purpose of the present study is to characterize the polysaccharide from *L. europaeum* L. leaves (LEP) and to explore its antioxidant, anti-inflammatory and hepato-nephroprotective properties.

MATERIALS AND METHODS

The structural and functional characteristics of LEP were investigated using X-ray diffraction techniques (XRD), Scanning Electron Microscopy (SEM), and FT-IR Spectroscopy. The antioxidant activity was evaluated using 2,2-diphenyl-1-picrylhydrazyl and hydrogen peroxide scavenging assays. Hepato-renal effects were studied using CCl₄ and cisplatin-induced liver and

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