

Determination of phenolic compounds in *Pinus eldarica* by HPLC

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Background: The antioxidant components have been identified in some pine species. Antioxidant properties of proantocyanidins reduce free radicals induced by DNA fragmentation and lipid peroxidation and also proanthocyanidins could curb lipid peroxidation. In this study, we analyzed different parts of Pinus eldarica (bark, seed and needle) and assessed their antioxidant contents. The HPLC method (UV detector, C₁₈ reverse phase column, 4.6 mm x 25 cm, and water/ H₃PO₄/ methanol/acetonitril as eluant) was employed for evaluating total polyphenols. The highest range of total polyphenols was detected in the bark of this pine. The high amount of total phenolic compounds in P. eldarica bark might be attractive for future research considering its health benefits.