

ABSTRACT

The plant *Zanthoxylum armatum* was collected, dried and soaked in methanol. The methanolic extract then fractionated with different solvents. The antioxidant potential of all these fractions and remaining aqueous fraction was assessed by four methods: 1,1-Diphenyl-2-picrylhydrazyl radical scavenging activity, total antioxidant activity, Ferric Reducing Antioxidant Power assay and ferric thiocyanate assay and total phenolics were also determined. The results demonstrated that among these fractions ethyl acetate soluble fraction exhibited maximum antioxidant potential, having IC_{50} of 19.76 ± 0.12 $\mu\text{g/ml}$, Highest FRAP value (714.45 ± 2.61 μg of trolox equivalents) as well as highest total phenolic contents (416.4 ± 7.73 mg of gallic acid equivalents) as compared to other fractions, however the chloroform fraction showed highest total antioxidant activity while *n*-hexane fraction exhibited highest percentage of lipid peroxidation inhibition.