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(57) Abstract :
The present invention relates to analysis of bio-active compounds and preparation of ethanolic extract of Artemisia annua to evaluate the anti-oxidant potentials. Wherein the antioxidant were analyzed by using ABTS, DPPH, H_2O_2, -OH free radical scavenging abilities, and reducing power. A strong correlation was observed between total phenolics and ABTS, H_2O_2 and -OH free radical scavenging activities, whereas terpenoids displayed the highest correlation with DPPH and reducing power assay. These results concluded that the bioactive (phenolic, anthocinin, flavonoid) rich ethanolic extract of Artemisia annua L (aerial part) exhibiting highest antioxidant potential with enhanced free radical scavenging activities at lowest concentration.

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