VENERIS LINN

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ABSTRACT

*Adiantum cappillus veneris linn* is a member of Adiantaceae family which has been used as a folk medicine in management of hyperglycemia. Although there are some reports showing that the aqueous extract of the plant is effective as hypoglycemic agent but there were no scientific reports for its effectiveness. The powdered dried leaves of *A. capillus veneris L.* was extracted continuously by Soxhelt extractor, five extracts (water, methanol, chloroform, ethyl acetate and acetone) were obtained and evaporated to dryness by rotatory evaporator. The extracts were investigated for antioxidant activity, reducing power and the presence of phenolic and flavonoid compounds. The antioxidant activity of *A. cappillus veneris L.* was confirmed for all extracts with the highest activity for the water extract IC$_{50}$ = 2.7, this assay was also supported with reducing power assay, in which both methanolic extract and water extract exhibited the highest reducing power assay, while the ethyl acetate extract shows the highest total flavonoids content. The highest total phenolic content value was recorded for methanolic extract.

**Keywords:** *Adiantum cappillus veneris linn*, antioxidant, reducing power, flavonoids, phenolic