



Total Phenolic Content and Total Flavonoid Content of *Embelia ribes* by Radical Scavenging Activity

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SUMMARY. *Embelia ribes* is a large climbing medicinal plant found majorly in India and native countries. It belongs to family Myrsinaceae. A huge amount of natural and synthetic antioxidants has been determined to develop favorable effects in human health and also inhibit diseases. The radical scavenging activity of was asses by using DPPH method and evaluated by half maximal inhibitory concentration (IC₅₀). The phenolic and flavonoid content was determined by Folin Ciocalteu and aluminium chloride calorimetry method, respectively. UV-VIS spectrophotometer was used to determine the absorbance of extracts. In this study it is examined that among four different extracts (hexane, ethyl acetate, methanol and dichloromethane) ethyl acetate has maximum radical scavenging property. By the examination of different extract, it is shown that *Embelia ribes* possess free radical eradicating/scavenging property. it is proposing that it can be used to manufacture therapeutic product for utilizing its more beneficial effects.

RESUMEN. *Embelia ribes* es una planta medicinal trepadora que se encuentra principalmente en la India y en países nativos. Pertenece a la familia Myrsinaceae. Se ha determinado que una gran cantidad de antioxidantes naturales y sintéticos desarrollan efectos favorables en la salud humana y también inhiben las enfermedades. La actividad de captación de radicales se realizó mediante el uso del método DPPH y se evaluó mediante la mitad de la concentración inhibitoria máxima (IC₅₀). El contenido fenólico y de flavonoides se determinó mediante el método de calorimetría de Folin Ciocalteu y cloruro de aluminio, respectivamente. Se usó un espectrofotómetro UV-VIS para determinar la absorbancia de los extractos. En este estudio se examina que entre cuatro extractos diferentes (hexano, acetato de etilo, metanol y diclorometano), el de acetato de etilo tiene la máxima propiedad de eliminación de radicales. Mediante el examen de diferentes extractos, se muestra que *Embelia ribes* posee propiedades de barrido/eliminación de radicales libres y se propone que se pueda utilizar para fabricar productos terapéuticos para aprovechar sus efectos más beneficiosos.

KEY WORDS: antioxidants, DPPH, free radical, medicinal plant.

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