P 13: Evaluation of the phytochemical constituents total phenol, total flavonoid and anti-oxidant activity of *Delonix elata* flower extract

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**Abstract**

The objective of the present study was to evaluate the phytochemical constituents, total phenol, total flavonoid, anti-oxidant activity of flower extract of *Delonix elata*. Plants are widely used in pharmaceutical and food industries due to their biological importance. Among the plant parts, leaves, stem, roots and bark are widely studied for their biological properties. However, flowers are almost neglected and are not much probed for their importance. The present study was carried out to identify the phytochemicals and evaluate antioxidant activity of flowers of *D. elata*. The antioxidant activity was determined by the method of DPPH radical scavenging assay. The flower extract contains saponin, alkaloid, terpenoids, flavonoids, steroids, phenols, cardioglycosides, quinines, coumarins and tannins. Thus, clearly indicate that the flower extract of *D. elata* shows significant antioxidant activity which in turn greatly contribute in reducing the risk of many diseases including heart disease, cancer cell formation and cell physiological abnormalities.