Evaluation of biological activities and characterization on commercial plants of *Boerhaavia diffusa* and *Carica papaya*

Balamurugan V[1]

[1]PG and Research Department of Biotechnology, Sri Vinayaga College of Arts and Science, Ulundurpet-606 107, Villupuram District, Tamilnadu, India.

*Corresponding author e.mail: balakal78@gmail.com

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ABSTRACT

In the present examine of the biological activities and characterization of *Boerhaavia diffusa* and *Carica papaya*. The plant samples were extracted and polarity for screening radical scavenging activity by using DPPH assays method. In the qualitative analysis of phytochemical profile revealed the presence of highest amount of phenolic compounds from the three extract of *Boerhaavia diffusa*. However, the *Carica papaya* of petroleum ether extract showed the presence of alkaloids, coumarin, sugars, terpenoids, flavonoids, protein glycosides and carboxylic acid. In the screening of anti-microbial activity for three extract revealed anti-microbial potency towards 12 test organisms. According to the GC-MS results, ethanol extract of *Boerhaavia diffusa* was subjected to study of medicinal properties and *Carica papaya* holds potent anti-oxidant, anti-microbial, phytochemical constituents and marginal anti-cancer activity were presence in the phytocomponents in the plants material. So the present study, concluded to expose that the plant has quite a number of chemical constituents, which may be responsible for many pharmacological actions and have protective or disease preventive properties.

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