

Phytochemical Screening and Antioxidant Activity of *Cissus quadrangularis*

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ABSTARCT

Cissus quadrangularis is a valuable medicinal plant. This plant was highly reported in Ayurveda, Siddha and Unani systems of medicine. *Cissus quadrangularis* commonly known as Veldt Grape has been used for centuries in the traditional medical practices of India which belongs to vitaceae family used to cure various diaeases. Due to its pharmacological properties, the present study was aimed to investigate the phytochemical and antioxidant activity. Qualitative phytochemical analysis shows the presence of various phytochemicals like Phenols, alkaloids, flavonoids, tannins, glycosides and terpenoids . The bioactive compounds from different solvent extracts were investigated to look for the presence of anti oxidant and anti diabetic properties. The findings confirm the potential benefits of the plant as described in traditional medicine. Ethanol and aquous extracts were found to be richest in their phytochemical composition. Antioxidant components like phenols, flavanoids are rich in *Cissus quadrangular* is extracted with 70% ethanol fraction showing maximum. The antioxidant activity of 70% ethanolic extract of *Cissus quadrangularis* was studied by DPPH assay and Ferric Reducing Power assay which showed the highest total antioxidant capacity. Further studies are needed to evaluate the in vivo antioxidant potential of *Cissus quadrangularis* extract in various animal models.