Evaluation of antitoxin and antioxidant potential of *Portulaca Oleracea Leave*s Extracts

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ABSTRACT:

Chemical estimated of *Portulaca Oleracea* Leaves extracts as follows: Phytochemical screening, Total Polyphenols and Flavonoids content were determined. Bio extracts were shown through color analysis containing phytochemical compounds such as (Terpens, Tannins, Flavonoids, Saponins, Alkaloids, Glycosides, Ph. Glycosides and Resins). *Portulaca Oleracea* Leaves have the highest of total polyphenols and flavonoids contents, which were 102.19mgGAE/g and 17.05mgQE/g, of methanolic extract, followed by ethanolic and aqueous *Portulaca Oleracea* Leaves extract. Antioxidant activity of *Portulaca Oleracea* Leaves, have the highest of reducing power which were 1.703, 1.475 and 1.201 at the concentrations of 40mg/ml, of methanolic, methanolic and aqueous extract, respectively. Also, when using (DPPH), of the same extract, the IC_{50} value were 0.211, 0.247 and 0.252 at the concentrations of 40mg/ml, respectively. Furthermore, The study showed the active effect of extracts as antitoxin when tested on biochemical parameters (LDH, CK and AST), antioxidant enzymes (MDA, SOD, GSH, GST and GPx) and Histopathological examinations.

Conclusion:

Portulaca Oleracea Leaves extracts contain a high percentage of active compounds such as polyphenols and flavonoids. The effect of natural extracts as antioxidant when tested using (FRAB and DPPH radical) showed high ability of these plant to scavenging the free radicals in laboratory. Additionally, The methanolic extract of *Portulaca Oleracea* Leaves showed the active effect as antitoxin when tested on rats.

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