

**Phytoconstituents and Pharmacological Activities of Aqueous *Hypericum Triquetifolium*
Extract from North Palestine**

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Abstract

Background: *Hypericum Triquetifolium* (St John's wort) is a plant with yellow, star-shaped flowers that has five petals it is indigenous to Europe, North and South America, Eastern Asia, Australia and New Zealand, it is widely used to treat mild to moderate depression. **Objective:** to investigate the potential enzymatic activities of aqueous *Hypericum Triquetifolium* extract and its therapeutic effects. **Method:**

Aqueous extract of *Hypericum Triquetifolium* was prepared and tested for the presence of phytochemical compounds, Antioxidant, Anti-amylase, Anti-glucosidase and Anti-Lipase Activities.

Result: Presence of tannins, flavonoid, saponins, steroids, terpenoids and Glycosides were found in the aqueous extract of *Hypericum Triquetifolium*. The results showed that *Hypericum Triquetifolium* aqueous extract had potent antioxidant activity [IC₅₀ value= (3.23±1.55) mg/mL] compared to trolox, also the extract showed a potent α-amylase inhibitory activity [IC₅₀ value= (38.9±2.55) mg/mL] as compared to acarbose, the results also showed that the aqueous extract of *Hypericum Triquetifolium* had a potent anti-lipase activity with IC₅₀ value range between (37.15±1.91) and showed no anti-glucosidase activity. **Conclusion:** These results suggest that *Hypericum Triquetifolium* could represent a potential source for the development of novel hypoglycemic drug and anti-obesity agent.

Keywords: *Hypericum Triquetifolium*, obesity, diabetes, Palestine