

Phytochemical and Pharmacological Screening for Anti-Thyroid Activity of *Moringa Oleifera* (Drumstick)

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Abstract: *This study aimed to investigate the phytochemical composition and anti-thyroid activity of Moringa oleifera (drumstick) extracts. Phytochemical screening revealed the presence of alkaloids, flavonoids, phenolic compounds, and glycosides in the extracts, indicating their potential therapeutic properties. However, saponins and tannins were not detected in any of the tested extracts. The study further examined the anti-thyroid activity of Moringa oleifera extracts through in vitro assays, which demonstrated inhibitory effects on thyroid hormone synthesis and thyroid peroxidase activity. These findings highlight the potential of Moringa oleifera as a natural remedy for thyroid disorders.*

Keywords: Moringa oleifera, drumstick, phytochemical screening, anti-thyroid activity, thyroid hormone synthesis, thyroid peroxidase