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## Screening of Supercritical Fluid Extract of *Gymnema Sylvestre* R. Br. Roots for Phytochemical and Pharmacological Analysis

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**Abstract** : Recently the world turned towards the naturally products especially in the field of medicine since, the side effects of such drugs is less comparing with synthetic drugs. One of the important plants that used in traditional medicine and until now is *Gymnema sylvestre* R. Br. The roots of this herb are extracted in this study by traditional methods like decoction method, soxhlet extraction and MeOH extraction, as well as by recent method called supercritical fluid extraction (SFE). Every extract produced is undergoing number of chemical tests to detect the phytochemical components available in it. Further studies are conducted on SC-CO<sub>2</sub> extract regarding its biological activities. Anti-microbial activity, anti-tuberculosis activity and anti-malaria activity of SC-CO<sub>2</sub> extract are examined. Indeed, this study provides a new knowledge about the phytochemical compounds present in SC-CO<sub>2</sub> extract of *Gymnema sylvestre* R. Br. and the pharmacological properties of it since it is not found in the literature any study related to that, which gives this study a great significance in the field of medicinal herbs.

**Keyword** : Phytochemical, SFE, Anti-Microbial, Anti-Malaria, Anti-Tuberculosis.

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