



Analytical profile of anti-diabetic constituents - Thymoquinone from seed of Nigella Sativa

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Abstract:Nigella sativa Linn. (Ranunculaceae) (N. sativa), commonly known as black seed or black cumin, is an herbaceous plant, mainly grows in the Middle East, Central Europe and Western Asia. It is widely used in indigenous system of medicine for treatment of numerous disorders for over 2 000 years. Its seed oil had been widely used in antidiabetic, due presence of high content of thymoquinone. Apart from the antidiabetic used it has other uses like seed oil Arabtraditional of medicine for the treatment of arthritis, lung diseases and hypercholesterolemia. Some of the reported pharmacological properties of N. sativa include hypotensive, anti-nociceptive, uricosuric, choloretic, antifertility, anti-histaminic, anti-oxidant, anti-inflammatory, anti-microbial, anti-tumor and immune modulatory effects. Most pharmacological properties of the whole seeds or their extracts of N. sativa are mainly attributed to the volatile oil of which thymoquinone, about 27%-57%, is the most abundant component. In this article for Intial profiling study physical properties, reported λ_{\max} in solvent water –ethanol it is 254 nm, solubility in different solvent, melting point in DSC and FTIR data.

Keywords: λ_{\max} , Solubility, Anti-dibetic, DSC and FTIR.

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