



Antioxidant and Acute Toxicity of Stem Extracts of the *Ficus iteophylla*

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Abstract:

The aims of this Study is to evaluate the Antioxidant activity and acute toxicity of the extracts of *Ficus iteophylla* by reactions with 1, 1-diphenyl-2-picrylhydrazyl radical (DPPH) and method developed by Lork 1983 respectively. Stem bark of *Ficus iteophylla* was collected, air dried, pulverized to fine powdered and sequentially extracted using acetone, methanol and water in order of increasing polarity. The result shows strong radical scavenging activity against DPPH for all the extracts when compared with Ascorbic acid. The LD₅₀ of 316mg/kg was calculated for all the three extras and the values were found to be within the practically toxic range and therefore care should be taken when using the plants in traditional medicine. Medicinal plants have long being used by man for treatment of various illnesses. According to world health organization (2001), 80% of the world population uses traditional medicine for the treatment of diseases. The number of people using traditional medicine is much higher in developing countries. World health organization estimated that 90% of the people leaving in developing countries depend on trational medicine for their primary health care. A key stage in ensuring the safety of drugs is to conduct a toxicity test in an appropriate animal. Acute toxicity studies is one of the procedure for toxicity test that are in use. The main aim of this study was to evaluate the antioxidant of the stem extract of *Ficus iteophylla* and also to evaluate it acute toxicity before it can be recommended for application that are important for public.



Biography:

Muhammad Mukhtar has over 25 years teaching experience in biomedical sciences. Besides teaching, he has a very strong portfolio of academic administration by serving as Director, Principal Investigator, and Vice Chancellor/President of the higher education institutes in North America and Asia. Mukhtar received United States Agency for International Development Scholarship to complete his Ph.D. from the Drexel University of Philadelphia, PA, USA. Additionally, the US government awarded him the Outstanding Scientist (O-1) visa award during the years 1995 - 2006 for conducting research, training students and young scientists pursuing their careers in medicine and biomedical field in the USA.

Recent Publications:

1. Muhammad Mukhtar, et al J A Chem Res, 2020.
2. Muhammad Mukhtar, et al BMJ Open, 2018

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