

Phytochemical Screening and Review of the Pharmacological Importance of *Erythrina Senegalensis*

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ABSTRACT

The plant *Erythrina senegalensis* have been observed by the natives to have medicinal values. The present study was carried out to investigate the phytochemicals of the root and pharmacological importance of the plant. The crushed root was subjected to sequential extraction (maceration) by increasing polarity index of solvents (hexane, ethyl acetate and methanol). The methanol extract gave the highest percentage yield (4.28%) followed by Ethylacetate (3.62%) and Hexane (2.48%) was the least in the yield in extraction. All the three solvent extracts were then used for phytochemicals screening test. The phytochemical screening has shown the presence of Flavonoids, alkaloids, anthraquinones, phenols, quinones, steroids, saponins, tannins, terpenoids, Xanthoproteins. All the phytochemicals were found to be present in atleast one of the extract with Flavonoids, Quinone, Anthraquinones and Xanthoproteins present in all the three extracts. This result of the phytochemical screening of the root shows why the plant *Erythrina senegalensis* has such pharmacological importance.

KEYWORDS: *Erythrina senegalensis*, extraction, pharmacological, phytochemicals

INTRODUCTION

Plant material has remained central to traditional medical practices and has remained useful sources of new drugs [1]. For a long period of time, plants have been a valuable source of natural products for maintaining human health especially in the last decade, with more intensive studies for natural therapies [2]. Medicinal plant would be the best source to obtain a variety of drugs while 80% of the developing countries rely directly on crude concoctions, infusions, decoctions of plants in traditional medicine for their health remedies [3]. Phytochemical and pharmacological studies are very important since a single plant may contain up to thousands of compounds, the possibility of making new discovery become evident [4]. The understanding of plants and investigation to better understand their properties, safety and efficiency is therefore important.

Phytochemicals are chemicals produced by means of secondary reactions resulting from primary carbohydrates, amino acids and lipids [5]. Such chemicals are known to participate in plant defense mechanisms against herbivores and pathogens [6]. The most common classes of these chemicals are saponins, tannins, anthraquinones, flavonoids, and alkaloids which are widely distributed amongst various plant families in abundant quantities. It is these chemicals which attract so much attention from scientists due to their ability to inhibit the growth of microbes pathogenic to man and to aid in drug discovery [7, 8].

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Plants have served as models for drugs development for three basic reasons: 25% percent of all prescription drugs contain active compounds from higher plants, secondly because secondary plant metabolites are useful in studying biological systems and disease processes, and lastly because biologically active compounds sometimes have poor pharmacological activity in humans, and in this case these compounds are used as template for synthetic modification and or manufacturing [9].

A. *Erythrina senegalensis*



Figure 1: *Erythrina senegalensis* Plant

Review Of Literature Phytochemical Screening

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