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Preliminary Phytochemical Analysis of Ethanolic Extract of *Wedelia Trilobata*

Merina Paul Das*
Department of Industrial Biotechnology, Bharath University, Chennai, India
***Corresponding author: E-Mail: merinadas@gmail.com**

ABSTRACT

Ethanol extract of *Wedelia trilobata* assessed for its antimicrobial, anti-cancerous and toxicity effect. Phenolic compound is any compound containing a benzene ring with one or more hydroxyl group. Plants have used as valuable source of natural products for natural therapies. Infectious diseases are the leading cause of the death worldwide. *Wedelia trilobata* used as traditional medicinal plant for the treatment of various diseases.

KEY WORDS: *Wedelia trilobata,* Ethanolic extract, Phytochemicals.

1. INTRODUCTION

Medicinal plants are the gift of nature. The increase demand of natural products to treat the fast growing infectious disease, herbal medicines make this a best and safe solution. *Wedelia* is a flowering plant belonging to the family Asteraceae. It blooms profusely with yellow-orange flowers that are borne singly on the end of each stem. It is good for soil retention and erosion control. It has been used in traditional medicine. The crushed leaves are used as a poultice; tea brewed out of the plant leaves is given to alleviate symptoms of colds and flu; and it is used in combination with other herbs to clear the placenta after birth. The present investigation was done to study the phytochemical constituents of the ethanolic extract of *Wedelia trilobata*.

2. MATERIALS AND METHODS

Plant material collection: The leaves of the plant *Wedelia trilobata* were collected from the university campus (Bharath University, Selaiyur, Chennai). It was taken into note that the leaves were delicately plucked, before the sunrise and were transferred into a sterile polythene pack.

Ethanolic extract preparation: 250 gm of the fresh leaves were taken, washed thoroughly and transferred into a round bottomed flask and it was added 500ml of ethanol and 500 ml of distilled water and was preserved carefully until 10 days, the extraction was taken and was filtered using what Mann filter paper and further pure sample was obtained using the soxhlet apparatus.

Phytochemical analysis: The plant extract was analyzed for the presence of phytochemical parameters like alkaloids, terpenoids, reducing sugars, saponins, tannins, carbonyls, flavonoids, phlobatannins and steroids using standard analytical procedures.

3. RESULTS AND DISCUSSION

The phytochemical constituents of ethanolic extrace of *Wedelia trilobata* were analyzed and the results are tabulated in Table 1.

Table.1. Phytochemical analysis of Ethanolic extract of *Wedelia trilobata*:-

Test	Leaf
Alkaloids	+
Glycosides	-
Terpenoids	+
Reducing sugars	-
Saponins	+
Tannin	+
Carbonyl	-
Phlobatannins	-
Steroids	-
Flavonoids	+

+: - positive, -: - negative

Traditionally, the natural plant products have been the source for searching the new drugs by Pharmaceutical companies. Phytochemical screening of the leaf extract showed the presence of alkaloids, terpenoids, saponin, tanins, and flavonoids. Similarly glycosides, reducing sugras, steroids showed the negative results.

4. CONCLUSION

Here, we conclude from our experimental work of *Wedelia trilobata* as; the Phytochemical analysis resulted that the extraction contained many phyto-constituents such as alkaloids, terpenoids, saponin, tannin and flavonoid,

that boosts the medicinal property of the plant and are able to inhibit the plant and animal pathogenic bacteria and fungi.

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