Evaluation of Anthelmintic Activity and Antimitotic Activity of Ethanolic Extract of *Leucas diffusa*

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ABSTRACT

The plants of the genus "Leucas" have been found to be useful in various diseases. *Leucas diffusa* (LD) widely distributed throughout India as a weed in cultivated fields, wastelands & roadsides. The aerial parts of the plant were used for the purpose of evaluation. The plant material were extracted with ethanol by process of cold maceration and is collected.The anti mitotic activity were tested by the ethanolic extract of aerial parts of *Leucas diffusa* at doses of 100mg, 250mg, 500mg using mung beans (*vigna radiata*) of equal weight and the results were compared with reference standard drug Cisplatin (10mg) for 24 hours. The anthelmintic assays are carried out as per the method of Ajaiyeoba et al. (Ajaiyeoba et al., 2001) with minor modifications. Adult earthworms are used to study the anthelmintic activity. The earthworms (Phertima posthuma) weighing 0.8–3.04 g are used for all experimental protocols. The earthworms resembled the intestinal earth worm parasites of human beings both anatomically and physiologically. Albendazole is used as reference standard. Thus concluding we have demonstrated the Ethanolic extract of aerial part of *Leucas diffusa* extract exhibiting considerable activity (dose dependent) when compared with reference standard. The present research work showed the validity and the clinical use of Ethanolic extract of *Leucas diffusa* in the control of Anthelmintic activity and Anti mitotic activity.

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