



**Phytochemical Analysis of crude and Nanosized leaf powder
of *Sesbania grandiflora***

Abbs Fen Reji^{1*} and N. Rexin Alphonse²

1. Department Of Chemistry, Nesamony Memorial Christian College, Marthandam, India
2. Department Of Science and Humanities, A.V.C. College of Engineering, Mayiladuthurai, India.

Email: rexinalphonse@gmail.com

Received on 24th February and finalized on 15th March 2013.

ABSTRACT

Sesbania grandiflora Linn.(Family: Fabaceae) is widespread distributed in West Bengal, Assam, Karnataka and North-Eastern parts. The present study intended with various phytochemical screening and toxicity studies on *Sesbania grandiflora*. The present study was done with the help of soxhlet extraction, Kirby Bauer well diffusion assay, Minimum Inhibitory concentration assay (MIC) and Colony forming unit (CFU). Preliminary phytochemical evaluation of the aqueous extracts revealed that presence of carbohydrate, proteins, flavonoids, alkaloids, tannins and glycosides. As per the antimicrobial investigations in the presence study the CLP (Crude Leaf Powder) of *Sesbania grandiflora* exhibited low level antibacterial activity but the NPL (Nanosized leaf powder) exhibited highest level of antibacterial activity.

Keywords: Screening of phytocompounds, Kirby Bauer well diffusion assay, Minimum inhibitory concentration assay (MIC), and Colony forming unit (CFU).
