ABSTRACT

Antimicrobial tested and Isolation Secondary Metabolite from
Barleria prionitis L. extracts.

Barleria prionitis is one of traditional medical plant distributed in Indonesia, Philippines, Malaysia, and Asia tropic, that most commonly used as antimicrobial agent. Indian researchers reported that B. prionitis extracts inhibit the growth of pathogenic bacteria. In this experiment, were used n-hexane, chloroform, and methanolic extracts of leaves and stem of B. prionitis from Indonesia. The antimicrobial activity were tested against Staphylococcus aureus, Bacillus subtilis, Escherichia coli and Candida albicans by the disc diffusion method.

The result showed that the samples did not show inhibitor zone at concentration 0.4 mg/disc. Isolation of secondary metabolite from methanol and chloroform extracts were undertaken, a mixture of terpenoid or steroid compound were obtained.

Keywords : Antimicrobial activity, Disc diffusion method, Isolation, Seconder metabolite, Barleria prionitis L.