ABSTRACT

Antimicrobial activity fractions of ethyl acetate extract from endophytic fungi *Cladosporium oxysporum* isolated from *Aglaia odorata*

Cladosporium oxysporum is one of the endophytic fungi was isolated from *Aglaia odorata*. A total of 13 fractions of ethyl acetate (EtOAc) extract from endophytic fungi *Cladosporium oxysporum* were tested for their antimicrobial activity against *Staphylococcus aureus* ATCC 6538, *Escherichia coli* ATCC 8739 and *Candida albicans* ATCC 10231 by the disc diffusion method.

The result showed that at least 6 of 13 fractions which were tested, exhibit inhibition zone against *Staphylococcus aureus* ATCC 6538, *Escherichia coli* ATCC 8739 and *Candida albicans* ATCC 10231. Among all the fractions, the 7th fraction exhibit the highest inhibition zone against *Staphylococcus aureus* ATCC 6538, and *Candida albicans* ATCC 10231 while the 10th fraction exhibit the highest zone against *Escherichia coli* ATCC 8739. This study shows that *Cladosporium oxysporum* from *Aglaia odorata* could be a good source of antimicrobial substances.

Keywords : Antimicrobial activity, fractions, endophytic fungi, *Cladosporium oxysporum*, *Aglaia odorata.*