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CHEMICAL DIVERSITY AND  
BIOLOGICAL ACTIVITIES OF HALOGENATED METABOLITES FROM RED  
ALGAE GENUS *LAURENCIA* FROM CARRINGTON REEF.

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## ABSTRACT

This study was carried out on 5 *Laurencia* species. They are *Laurencia snackeyi*, *Laurencia nangii*, *Laurencia* sp., *Laurencia papilose*, and *Laurencia cribb*. Five halogenated secondary metabolites were isolated from *L. snackeyi*. The halogenated secondary metabolites are (2Z\*, 6S\*, 9R\*)-chamigr-2, 5(14)-dien-8-one (80), Palisadin B (76), 5-acetoxypalisadin B (7), Aplysistatin (6), and 5 $\beta$ -hydroxypalisadin B (81). The halogenated secondary metabolites were then tested against marine environmental bacteria, human pathogenic bacteria and yeast. (2Z\*, 6S\*, 9R\*)-chamigr-2, 5(14)-dien-8-one (80) and Palisadin B (76) did not show any positive activity against all of them. 5-acetoxypalisadin B (7) and Aplysistatin (6) showed positive activity against 5 marine environmental bacteria which were *Clostridium cellobioparum*, *Clostridium sordelli*, *Clostridium novyi*, *Vibrio arginolyticus* and *Vibrio parahaemolyticus*. 5 $\beta$ -hydroxypalisadin B (81) showed positive activity against 2 marine environmental bacteria which were *Clostridium sordelli* and *Vibrio parahaemolyticus*, 2 human pathogenic bacteria *Vibrio cholera* and *E. coli*, and 2 different strains of *Candida albicans* yeast.

