

Antibacterial activity in marine algae *Eucheuma denticulatum* against *Staphylococcus aureus* and *Streptococcus pyogenes*

ABSTRACT

The in vitro antibacterial activities of seaweed belong to *Eucheuma denticulatum* extract showed inhibitory activity only on gram positive organisms tested including *Staphylococcus aureus* and *Streptococcus pyogenes*, which were expressed in terms of minimum inhibitory concentration and minimum bactericidal concentration test. Thus, gram negative pathogens tested including *Escherichia coli*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* showed resistant phenotypic pattern to both extracts. Results of the present study confirmed the potential use of seaweed extract as a source of antibacterial compounds.

Keyword: Seaweed; Antimicrobial resistance; Infectious disease; Disc diffusion; Minimal inhibitory concentrations; Minimal bactericidal concentrations; Malaysia