

ANTIBACTERIAL ACTIVITY OF SEAWEEDS AGAINST SEAFOOD PATHOGENS

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ABSTRACT

Our study is to evaluate the potential bioactive compound of Seaweed and its antibacterial activity against Seafood pathogens. 40 strains was active in antagonistic activity against various pathogens. Among the strains, antibacterial activity of seaweed species *Gelidium spinosum*, *Gracilaria edulis*, *Ulvalactuca*, *Ulva reticulata*, *Sargassum muticum*, *Gracilaria grevillea*, *Monostroma latissimum*, *Kappaphycus alvarasi*, *Padinapavonica*, *Codium fragile*, *Caulerpa corynephora*, *Leathesia marina*, *Padinatetrasstromatica*, *Laurencia karachiana*, *Sargassum wightii*, *Porphyra umbilicalis*, *Colpomeisisisnosa* showed better activity against *Escherichia coli*. The inhibition zone of red algae and brown algae give maximum effect. *Sargassum wightii* seaweed Acetone extracts 3.5mm against *Escherichia coli*. *Laurencia karachiana* seaweed Acetone extract 3.0mm zone of inhibition against *Escherichia coli*.

KEYWORDS: Marine Algae, Seafood Pathogens, Antibacterial Activity, Antagonistic Compound

Article History

Received: 04 Aug 2021 | Revised: 06 Aug 2021 | Accepted: 11 Aug 2021
