

## Isolation of Marine Microorganisms Capable of Degrading Seaweed Fucopolysaccharides

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The fucoidan from *Laminaria religosa* collected in Wando area of Korea was purified with the yield of 2.3% in mass. The monosaccharide composition of the purified fucoidan was nearly identical to that of the commercial standard: fucose 65.86%, xylose 23.75%, galactose 6.84%, mannose 0.25%, and uronic acid 3.26%. Microorganisms capable of degrading the purified fucoidan were isolated from the colonies on the minimal medium containing 0.2% of purified fucoidan as a sole carbon source. Of these isolates, a strain showing a relatively higher capability to degrade fucoidan, up to 63%, was partially characterized as a Gram positive, aerobic, moderately halophilic marine bacterium.

### References

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