

## Fatty acids compositions of *Sargassum granuliferum* and *dictyota dichotoma* and their anti-fouling activities/ Kamariah Bakar, Habsah Mohammad, Jalifah latip, Hock Seng Tan, Gan Ming Herng

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### Abstrak

#### <b>ABSTRAK</b><br>

In this study, characterization of fatty acids in *Dictyota dichotoma* and *Sargassum granuliferum*, the seaweeds collected from Pulau Nuyunan, Sabah, were carried out. fatty acid methyl-ester analysis (FAME) showed palmitic acid, elaidic acid, stearic acid, cis- 11,14,17-eicosatrienoic acid and erucic acid were dominant in both seaweeds with co poly- and mono-unsaturated fatty acids were higher than the saturated fatty acids. The pure compounds isolated from *Sargassum granuliferum* were hexadecanoic acid, pentadecanoic acid, docosanoic acid, tetracosanoic acid, octadecanoic acid, eicosanoic acid and oleamide. Meanwhile, hexadecanoic acid, tetradecanoic acid and 2-hydroxyhexadecanoic acid were isolated from *Dictyota dichotoma*. All fatty acids isolated exhibited anti-fouling properties with broader activities shown for hexadecanoic acid and fatty acids isolated from *Sargassum granuliferum* and also more superior than *Dictyota dichotoma*.