

Various elements on biomass and lipid contents of marine microalgae for biodiesel production

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The rate of depletion of fossil fuels and the effect of greenhouse gas emissions on global climate change are creating much interest in biodiesel.

Recently, focus on microalgae is increased instead of vegetable oils because of their high lipid yield. (; high yield of neutral lipid/oil as 20-50%)

In this study, one of the species of marine microalga, *Dunaliella tertiolecta* is known to produce relatively large amount of lipids when cultured in seawater.

The aim of this study is to evaluate cell growth, biomass productivity, oil content and fatty acid composition of oil from *Dunaliella tertiolecta* candidates for biodiesel production in 1L photobioreactor batch culture.