

Pengaruh Penambahan NaCl sebagai Stress Agent dalam Kultivasi Sel Mikroalga Dunaliella tertiolecta ATCC 30929 terhadap Akumulasi Lipid Intrasel

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| Title | Pengaruh Penambahan NaCl sebagai Stress Agent dalam Kultivasi Sel Mikroalga Dunaliella tertiolecta ATCC 30929 terhadap Akumulasi Lipid Intrasel |
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| Abstract | Lipid composition of microalgae cell was affected by saline medium. Increasing of initial NaCl in modified NORO medium from 0.5 M to 1.0 M resulted in an increase of intracellular lipid content of Dunaliella tertiolecta ATCC 30929 cell from 60% to 67% (db). Loading of 0.5 M NaCl at a middle of logarithmic phase or 1.0 M at the end of logarithmic phase during the growth on the same medium increased intracellular lipid content to 70% (db). Addition of NaCl up to 2.0 M during the culture gave a high intracellular lipid content up to 77% (db) , although cell concentration was decreased to a half The temperature, light intensity, and aeration was adjusted at 30 °C, 150 mol.m ⁻² (10.000 lux) and 250 ml/min CO ₂ enriched air (CO ₂ 3%). |
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