

Pengaruh konsentrasi medium ekstrak taugé (Met) terhadap pertumbuhan *Scenedesmus* isolat Subang

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Abstrak

Penelitian untuk mengetahui pengaruh beberapa konsentrasi Medium Ekstrak Tauge (MET) terhadap kerapatan sel mikroalga marga *Scenedesmus* Meyen selama 10 hari pengamatan telah dilakukan. Penelitian bersifat eksperimental menggunakan rancangan acak lengkap terdiri atas 8 perlakuan, yaitu MET 1%, 2%, 3%, 4%, 5%, 6%, akuabides, dan Medium Basal Bold (MBB). Hasil penelitian menunjukkan bahwa konsentrasi MET mempengaruhi kerapatan sel *Scenedesmus*. Rerata kerapatan sel tertinggi (3.981.071 sel/mL) pada saat peak terjadi dalam media perlakuan MET 4% pada pengamatan hari ke-7. Rerata kerapatan sel terendah (87.096 sel/mL) pada saat peak terjadi dalam media perlakuan akuabides pada pengamatan hari ke-3. Hasil uji Kruskal-Wallis menunjukkan adanya perbedaan rerata kerapatan sel *Scenedesmus* (sel/ml) ($p > 0,05$) antarmedia perlakuan. Hasil uji perbandingan berganda menunjukkan rerata kerapatan sel *Scenedesmus* berbeda sangat nyata ($p > 0,05$) antara media perlakuan akuabides dengan MET 1%, 2%, 3%, 4%, 5%, 6%, dan MBB.

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The effect of Tauge Extract Medium (TEM) concentration to the growth of Subang isolated *Scenedesmus*. Research on the effect of several concentration of Tauge Extract Medium (TEM) to *Scenedesmus* Meyen cell densities was conducted. The research was an experimental study with complete random design with 8 treatments, i.e. 1%, 2%, 3%, 4%, 5%, 6% TEM, aqua bides, and Bold Basal Medium (BBM). The results showed that TEM concentration effected cell densities of *Scenedesmus*. At peak condition, the highest cell density (3.981.071 sel/mL) was occurred in 4% at the day of seven, and the lowest cell density (87.096 sel/mL) in aqua bides at the day of three. Kruskal-Wallis test showed that there were differences between the mean of cell densities on all treatment media. Multiple comparison test showed that mean of cell numbers of *Scenedesmus* differed among treatments ($p \text{ value} \# 1048638; 0,05$) between aqua bides with 1%, 2%, 3%, 4%, 5%, 6%, and BBM.