

Pertumbuhan *Chlorella* spp. dalam medium ekstrak Tauge (Met) dengan variasi pH awal

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Abstrak

Telah dilakukan penelitian tentang pengaruh derajat keasaman (pH) awal Medium Ekstrak Tauge (MET) terhadap kerapatan sel mikroalga marga *Chlorella* Beijerinck pada saat peak. Penelitian bersifat eksperimental dengan menggunakan rancangan acak lengkap yang terdiri atas 5 perlakuan, yaitu nilai pH awal media 5, 6, 7, 8, dan 9. Kerapatan sel tertinggi (5.677.625 sel/ml) pada saat peak terjadi dalam media perlakuan pH awal 7. Kerapatan sel terendah (3.374.100 sel/ml) pada saat peak terjadi dalam media perlakuan pH awal 5. Hasil uji Anova (pada $p \leq 0,05$) menunjukkan adanya pengaruh pH awal media perlakuan yang berbeda terhadap kerapatan sel *Chlorella* (sel/ml) saat peak. Hasil uji perbandingan berganda terhadap kerapatan sel *Chlorella* saat peak menunjukkan adanya perbedaan nyata ($p > 0,05$) pada setiap media perlakuan, kecuali antar media perlakuan pH awal 8 dengan pH awal 9.

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The Growth of *Chlorella* spp. in Tauge Extract Medium (TEM) with Various Initial pH. Research on the effect of tauge extract medium initial pH value on *Chlorella* Beijerinck cell densities at peak condition had been done. The research was an experimental study with complete random design with 5 treatments (tauge extract medium with initial pH 5,6,7,8, and 9). At peak condition the highest cell density (5.677.625 sel/ml) was occurred in medium with initial pH 7 and the lowest (3.374.100 sel/ml) in medium with initial pH 5. Anova test shown that there was an effect ($p \text{ value} \leq 0,05$) of tauge extract medium initial pH value on *Chlorella* cell densities (cell/ml) at peak condition. Multiple comparison test showed that mean of cell numbers of *Chlorella* differed among treatments ($p \text{ value} \leq 0,05$) except between media with initial pH 8 and 9.