

## 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 (p < 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 ( $p \text{ value} < 0,05$ ) 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 ( $p \text{ value} < 0,05$ ) except between media with initial pH 8 and 9.