

Studi karakteristik fluoresensi *Chlorella* spp: pengaruh pH terhadap pengkulturan

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Abstrak

Eksperimen untuk mengamati karakteristik fluoresensi *Chlorella* spp. dengan menggunakan laser Nitrogen yang memiliki stabilitas dan frekuensi repetisi tinggi (energi 5 mJ, durasi pulsa 5 ns) telah dilakukan. Hasil percobaan menunjukkan untuk rentang konsentrasi 2.625 sel/ml hingga 2.769.000 sel/ml, intensitas fluoresensi pada $\lambda = 687$ dan konsentrasi sel memiliki hubungan linier. Juga ditunjukkan pada kultur *Chlorella* spp usia 7 hari, variasi pH pada awal kultur berpengaruh terhadap konsentrasi sel yang dihasilkan.

The Study on Fluorescence Characteristics of *Chlorella* spp: pH Influence on Culture. Experiments for measuring the fluorescence characteristics of *Chlorella* spp. by using high stability and high repetition rate nitrogen laser of energy 5 mJ with pulse duration of 5 ns have been carried out. The results show that for a cell concentration range from 2,625 cells/ml up to 2,769,000 cells/ml, the fluorescence intensities at $\lambda = 687$ nm have a linear relationship with the cell concentration. It has been also found that for a 7 days old *chlorella* culture, the pH variation at the starting culture influenced the cell concentration.