Density of *microalgae* cell and *chlorophyll a* content of *Nannochloropsis oculata* in different salinity and medium

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Abstract
Nannochlorosis microalgae is belonged to phylum Chlorophyta and sub-phylum Eustigmatophyceae. In this study growth of *Nannochloropsis oculata* has been evaluated in four different media (Conway, Guillard, N8, TMRL) and different salinity (20, 25, 30 ppt) with triplicate for treatments in laboratory (temperature was 25˚C , pH=11, light intensity=2500LUX, light duration=18hours and 6 hours darkness and also aeration using aquarium pump for 24 hours) During 14 days culturing. The growth of *Nannochloropsis oculata* has been determined with two counting methods, neobar lam and cellular concentration and the amount of a chlorophyll a by using spectrometry method .According to the results, significant differences between treatments with medium salinity differences exist ($p < 0.05$) and medium Conway salinity 25 ppt in terms of increased density and salinity 20 ppt the amount of a chlorophyll a in the first grade, medium Guillard with salinity 20ppt in terms of increased density and a chlorophyll a second level, medium TMRL salinity 25 ppt in terms of increased density and a chlorophyll a third and medium N 8 with salinity 25 ppt in terms of increased density and salinity 20 ppt the amount of a chlorophyll a in fourth place fall.

Keywords: Microalgae, *Nannochloropsis oculata*, Culture, Growth, Salinity, Chlorophylla.