

## Effect of *Panchagavya* on *Spirulina* culture

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Experiments were conducted to study the effect of organic fertilizer *Panchagavya* on the growth of *Spirulina platensis* in different concentrations of PG1 (0.30), PG2 (0.60) and PG3 (0.90) respectively. *Spirulina platensis* biomass was harvested under optimised growth conditions. Initially, optimisation of growth condition was carried out and the result showed that the maximum biomass yield (6.07g/l) at PG2 was obtained at pH9.07 and temperature 35 inoculated the period of 22 days. In the modification of *Panchagavya* concentration PG2 showed better yield of biomass than PG1 and PG3 respectively. The fresh biomass of *Spirulina platensis* was harvested and subjected to biochemical analysis. The biochemical analysis showed maximum of protein (66.32%), carbohydrate (15.21%) and the pigment chlorophyll a (0.581%) and chlorophyll b (0.043%) were obtained. the biochemical analysis of *Spirulina platensis* culture PG2 showed study revealed that the organic fertilizer *Panchangavya* PG2 enhance the growth and yield of *Spirulina*.

### KEY WORDS

*Spirulina*, *Panchangavya*, Protein, Carbohydrate, Chlorophyll.