

Effect of medium and light quality on pink pigment production of cyanobacteria Oscillatoria sp. BTCC/A0004

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<b>Abstract</b>	<p>Cyanobacteria are well known as promising source of valuable chemicals for human usage. Especially, cyanobacteria in tropical area are very wide in diversity and they are potent producers of unique metabolites which exhibit interesting bioactivities. Oscillatoria sp. BTCC/A0004 produce pink pigments extracellularly (OsPP). The effects of various environmental factors on the production of cyanobacteria metabolites were well documented. In this research, the effect of medium and light quality on cell growth and OsPP production were investigated. In case, three different culture media, named No 18, C, and modified C media, in which nutrient compositions are different, and light quality (white, blue, green, pink) were tested. The highest cell growth and OsPP production were obtained in modified C medium. The nitrogen concentration in modified C medium is higher (5 g/L) than in No 18 medium (1.5 g/L) or C medium (1 g/L). In addition, cell growth and OsPP production were significantly stimulated by pink light radiation.</p>
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