

Antioxidant Activity and Stability of Pigment Extracted from Algae Oscillatoria sp.

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<b>Abstract</b>	The pink pigment has been isolated from Oscillatoria algae cell. The pigment showed physicochemical properties similar to phycoerythrin produced by red algae. The aims of this study were to evaluate antioxidant activity and stability of the pigment at various pH and temperature. The pigment was diluted using 20 mM phosphate buffer at different pH of 6, 7, and 8 and incubated at various temperature of 28, 40, 70, and 100 degrees C. Antioxidant activity and stability of the pigment were determined using ferric thiocyanate method and thiobarbituric acid test. The result showed that antioxidant activity of the pigment was stable at pH 7 and temperature 28 degrees C, and the antioxidant stability tend to decrease when the pH buffer solution change to acid or alkali and increasing of temperature.
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