ABSTRACTS

Research Title : Potential of Bioplastic from Agricultural waste

Author : Kowit Suwannahong

Asst. Prof. Chaisri Tharasawatpipat

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The utilization of aquatic weed for production of bacterial cellulose was studied which as an alternative choice to reduce agricultural waste. The Acetobacter Strain bacteria can synthesize a cellulose polymer in sugar complex medium. Four various type of starting materials were choosing for preparation of sugar containing medium. The yield of cellulose from the coconut sugar palm medium was found at 16, 12, 10, 6 in 6 days, for the glucose, xylose, sucrose and arabinose respectively. It was shown from the this study that glucose in the medium give high quantity of cellulose polymer.

Keywords: Aquatic weed, Bacterial cellulose, Cellulose polymer