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**Biodiesel Production by Lipase-Catalyzed Transesterification of Triolein in Acetone Using a Free-Form Lipase from Porcine Pancreas**

Mohe, Mervyn Lulu; Tahara, Yoshiro; Matsumoto, Michiaki  
Journal Of Chemical Engineering Of Japan

Enzyme-catalyzed transesterification of triolein and methanol to produce methyl oleate (biodiesel) was studied using a free-form lipase from porcine pancreas. This study aims to produce biodiesel under mild conditions, making it environm...

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ผลงานวิจัยของกนกพร

จำนวน 1 เรื่อง

Web of Science แจ้งว่ามีผลงานวิจัยเรื่อง “Biodiesel production by lipase-catalyzed transesterification of triolein in acetone using a free-form lipase from porcine pancreas” ได้ citation งานของกนกพร สังข์รักษ์ จำนวน 1 บทความ ได้แก่

1. ชื่องานวิจัย “Optimized synthesis method for transesterification of residual oil from palm oil mill effluent and lipase from pacific white shrimp (*Litopenaeus vannamei*) hepatopancreases to environmentally friendly biodiesel”

เรื่องที่นำผลงานไปอ้างอิง

**Biodiesel Production by Lipase-Catalyzed Transesterification of Triolein in Acetone Using a Free-Form Lipase from Porcine Pancreas**

By: [Waka, M.](#), [Moto, Herlyn Lda.](#), [Takahashi, Y.](#), [Takahara, Yoshino.](#), [Watanabe, K.](#), [Matsunishi, Michiaki.](#)

Source: JOURNAL OF CHEMICAL ENGINEERING OF JAPAN  
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Abstract: Enzyme-catalyzed transesterification of triolein and methanol to produce methyl oleate (biodiesel) was studied using a free-form lipase from porcine pancreas. This study aims to produce biodiesel under mild conditions, making it environmentally friendly and cost-effective. Therefore, several factors, including the organic solvents, molar ratios of triolein to methanol, and pH, were investigated to find the optimal conditions favorable for producing methyl oleate (biodiesel) from triolein (a triglyceride) and methanol (a short-chain alcohol) in acetone as the reaction medium. In the course of experimentation, the addition of water and the utilization of surfactant decreased the reaction rate instead of enhancing the reaction system. Hence, this study suggested that the utilization of the existing maximum amount of water present in acetone is necessary for biodiesel production. The

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