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Polyhydroxybutyrate Production from Waste Frying Oil Using *Bacillus megaterium*: Process Optimization and Economic Analysis and Life Cycle Assessment

Chysirichote, Teerin; Tojumsri, Wacharakom
Waste And Biomass Valorization

This study optimized polyhydroxybutyrate (PHB) production from waste frying oil using *Bacillus megaterium* and evaluated the economic and environmental performance of the process. Free fatty acid (FFA) content, nitrogen concentration, and...

Cited publications:

Statistical optimization for fatty acid reduction in waste cooking oil using a biological method and the continuous process for polyhydroxyalkanoate and biodiesel production

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1. ชื่องานวิจัย “Statistical optimization for fatty acid reduction in waste cooking oil using a biological method and the continuous process for polyhydroxyalkanoate and biodiesel production”
2. ชื่องานวิจัย “A novel green process for synthesis of 3-hydroxyalkanoate methyl ester using lipase and novel mcl-co-lcl PHA as catalyst and substrate”

เรื่องที่น่าผลงานไปอ้างอิง

Polyhydroxybutyrate Production from Waste Frying Oil Using *Bacillus megaterium*: Process Optimization and Economic Analysis and Life Cycle Assessment

By Oyasirah, Y (Oyasirah), Teerin, W (Teerin), Wacharakorn

Source: WASTE AND BIOMASS VALORIZATION
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Document Type: Article | Early Access

Abstract: This study optimized the production of polyhydroxybutyrate (PHB) using *Bacillus megaterium* and evaluated the economic and environmental performance of the process. Free fatty acid (FFA) content, nitrogen concentration, and temperature were examined using a Box-Behnken design. The optimal conditions were 5.18 mM nitrogen, 1.20% FFA, and 35 degrees C, which produced 58.7% PHB in bacterial dry mass and a maximum

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งานวิจัยเรื่อง “Polyhydroxyalkanoate production from waste frying oil using *Bacillus megaterium* process optimization and economic analysis and life cycle assessment”

ตีพิมพ์ในวารสาร Waste and biomass validation

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