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Designing of cometabolic microbial degradation of 1,4-dioxane: literature studies and experiments

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Publication title:	Designing of cometabolic microbial degradation of 1,4-dioxane: literature studies and experiments
Authors:	Bożena Janus, Hanna Kolarczyk, Agnieszka Gąszczak, Elżbieta Szczyrba
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	1,4-dioxane, monooxygenase, cometabolic biodegradation

Abstract: Major methods of 1,4-dioxane degradation were described and different bacterial strains using that xenobiotic as a source of carbon and energy were presented. Microbial growth tests during 1,4-dioxane degradation in metabolic and cometabolic processes were conducted. The tests of the inducibility of monooxygenase, the main enzyme of 1,4-dioxane biodegradation pathway, were also provided.

Attachments:

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