

Development of toxicity evaluation method on petroleum hydrocarbons by bioassay with luminous bacteria: on alcohols and alkanes

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Recently, a lot of soil pollutions with petroleum hydrocarbons have been found in many parts of the world. Developments of convenient risk assessment tools against the above problem have been required. The bioassay with luminous bacteria has been suggested as one of the toxicity evaluation methods. However, the method remains to be accomplished, because it does not have the data base on the toxicity responses from each toxic substance and solvents. Therefore, in order to collect the basic data, the toxicities of alcohols as solvents and alkanes as petroleum hydrocarbons were evaluated by bioassay with luminous bacteria