

# Continuous production of a dehalogenase from a recombinant *Pseudomonas putida*

University of Birmingham - Engineering an anaerobic metabolic regime in *Pseudomonas putida* KT2440 for the anoxic biodegradation of 1,3



Description: -

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Notes: Thesis (Ph.D) - University of Birmingham, Department of Biochemistry, Faculty of Science.

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Tags: #Development #of#recombinant #*Pseudomonas putida* #containing #homologous #styrene #monooxygenase #genes #for #the #production #of#( #S #)

**Cryptic dehalogenase and chloroamidase genes in *Pseudomonas putida* and the influence of environmental conditions on their expression**

Transposition of ampicillin resistance from RP4 to other replicons.

**Construction of recombinants *Pseudomonas putida* BO14 and *Escherichia coli* QEFCA8 for ferulic acid biotransformation to vanillin**

The DEH element was not classified as a conventional transposon because it did not move as a discrete DNA fragment: dehl-containing inserts in plasmid DNA targets varied in size between 6 and 13 kb. Stereospecificity of 2-monochloropropionate dehalogenation by the two dehalogenases of *Pseudomonas putida* PP3: evidence for two different dehalogenation mechanisms. Computer-assisted engineering of the synthetic pathway for biodegradation of a toxic persistent pollutant.

**Development of recombinant *Pseudomonas putida* containing homologous styrene monooxygenase genes for the production of ( S )**

Conclusions: These findings demonstrated a degradable strain of P.

**Engineering an anaerobic metabolic regime in *Pseudomonas putida* KT2440 for the anoxic biodegradation of 1,3**

Total protein extracts were prepared from samples taken at 0 and 60 min and analyzed on an activity-stained gel. Stutzeri DEH130 contained two kinds of 2-haloacid dehalogenase designated as Dehalogenase I and Dehalogenase II as detected in the crude cell extract after ammonium sulfate fractionation. The transcriptional start site is in boldface and underlined.

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