

Title (en)

A PROCESS FOR PRODUCING L-PHENYL ACETYL CARBINOL (PAC), AN IMMOBILIZED CELL MASS FOR USE IN THE PROCESS AND A METHOD FOR PREPARING THE CELL MASS

Publication

EP 0439527 A4 19911121 (EN)

Application

EP 89912199 A 19891013

Priority

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Abstract (en)

[origin: WO9004639A1] A process for the production of L-phenyl acetyl carbinol (PAC) is carried out with an immobilized cell mass of non-viable cells of a mutant yeast strain that exhibits resistance to aldehyde inhibition during PAC production. Benzaldehyde and a source of pyruvate are reacted in an aqueous medium in the presence of the immobilized cell mass. Cells in the cell mass contain endogenous pyruvate decarboxylase. Cell walls are chemically crosslinked with polyazetidine and modified to increase permeability to the reactants. A cosolvent for benzaldehyde can be employed to increase PAC production. PAC is useful as an intermediate in the preparation of 1-ephedrine and d-pseudoephedrine, two well-known medicinal chemicals.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 9004639A1

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