

Title (en)
METHOD FOR PRODUCING ENANTIOMER-FREE PHENYLACETYL CARBINOLES FROM ACETALDEHYDE AND BENZALDEHYDE IN THE PRESENCE OF PYRUVATE DECARBOXYLASE FROM ZYMOMONAS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ENANTIOMERENREINEN PHENYLACETYL CARBINOLEN AUS ACETALDEHYD UND BENZALDEHYD IN GEGENWART VON PYRUVATDECARBOXYLASE AUS ZYMOMONAS

Title (fr)
PROCEDE POUR LA PREPARATION DE PHENYLACETYL CARBINOLES ENANTIOMERIQUEMENT PURS A PARTIR D'ACETALDEHYDE ET DE BENZALDEHYDE EN PRESENCE DE PYRUVATE-DECARBOXYLASE ISSUE DE ZYMOMONAS

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Abstract (en)
[origin: DE19736104A1] Preparation of entantiomerically pure phenylacetycarbinol derivatives (I) from acetaldehyde and benzaldehyde is carried out in the presence of pyruvate decarboxylase, which is obtained from Zymomonas mobilis. Preparation of entantiomerically pure phenylacetycarbinol derivatives of formula (I) comprises reacting acetaldehyde with the corresponding benzaldehyde (II) in the presence of pyruvate decarboxylase obtained from Zymomonas. The novelty comprises continuous or discontinuous addition of acetaldehyde to the reaction mixture, to ensure that the acetaldehyde concentration stays at 20-50 mMol/l: R = H, F, Cl or Br.

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IPC 8 full level
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