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(54) Title (EN): CORYNEFORM BACTERIUM TRANSFORMANT AND METHOD FOR PRODUCING 2-PHENOL ETHANOL USING SAME

(54) Title (FR): TRANSFORMANT DE BACTÉRIE CORYNÉFORME ET PROCÉDÉ DE PRODUCTION DE 2-PHÉNYLÉTHANOL L'UTILISANT

(54) Title (JA): コリネ型細菌形質転換体およびそれを用いる 2-フェニルエタノールの製造方法

(57) Abstract:

(EN): Provided are: a microorganism capable of producing highly concentrated 2-phenol ethanol; and a method for efficiently producing 2-phenol ethanol using saccharides as a raw material therefor. The present invention pertains to a coryneform bacterium transformant having an activated shikimic acid pathway and having introduced thereto, in an expressible manner, a gene that codes an enzyme having phenylpyruvate decarboxylase activity. The present invention also pertains to a method for producing 2-phenyl ethanol that includes causing this coryneform bacterium transformant to react in water including saccharides.

(FR): L'invention concerne un micro-organisme capable de produire du 2-phényléthanol hautement concentré, et un procédé de production efficace de 2-phényléthanol à l'aide de saccharides en tant que matière première pour sa mise en œuvre. La présente invention concerne un transformant de bactérie corynéforme ayant une voie d'acide shikimique activée et ayant introduit, de sorte à pouvoir être exprimé, un gène codant pour une enzyme ayant une activité de phénylpyruvate décarboxylase. La présente invention concerne également un procédé de production de 2-phényléthanol consistant à amener ce transformant de bactérie corynéforme à réagir dans de l'eau comprenant des saccharides.

(JA): 2-フェニルエタノールを高濃度生産可能な微生物を提供すること、および糖類を原料として効率よく2-フェニルエタノールを製造する方法を提供する。本開示は、シキミ酸経路が活性化されたコリネ型細菌形質転換体であって、さらに、フェニルピルビン酸デカルボキシラーゼ活性を有する酵素をコードする遺伝子が発現可能に導入されて

いるコリネ型細菌形質転換体に関する。 本開示は、また、糖類を含む水中で本開示に係るコリネ型細菌形質転換体を反応させることを含む2-フェニルエタノールの製造方法に関する。

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