

Title (en)
IMPROVED CYSTEINE-PRODUCING STRAINS

Title (de)
VERBESSERTE CYSTEIN PRODUZIERENDE STÄMME

Title (fr)
SOUCHES AMÉLIORÉES PRODUISANT DE LA CYSTÉINE

Publication
EP 4172310 A1 20230503 (DE)

Application
EP 20735534 A 20200626

Priority
EP 2020068021 W 20200626

Abstract (en)
[origin: WO2021259491A1] The invention relates to a microorganism strain which is suitable for the fermentative production of L-cysteine, characterised in that the relative enzyme activity of the enzyme class denoted in the KEGG database by the number EC 2.7.9.2 is inactivated or, based on the specific activity of the wild-type enzyme, is reduced, and the enzyme class denoted in the KEGG database by the number EC 2.1.9.2 forms an increased amount of L-cysteine compared with the microorganism strain with wild type enzyme activity, wherein the gene coding this enzyme activity is denoted by ppsA. The invention also provides a method for producing L-cysteine using these microorganism cells.

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