

Title (en)  
BIOTECHNICAL PRODUCTION PROCESS OF PIPERAZINE R--g(a)-CARBOXYLIC ACIDS AND PIPERAZINE S--g(a)-CARBOXYLIC ACID AMIDE

Title (de)  
BIOTECHNOLOGISCHES VERFAHREN ZUR HERSTELLUNG VON R-ALPHA-PIPERAZINCARBONSÄURE UND S-ALPHA-PIPERAZINCARBONSÄUREAMID

Title (fr)  
PROCEDE BIOTECHNOLOGIQUE DE PRODUCTION D'ACIDE R--g(a)-CARBOXYLIQUE DE PIPERAZINE ET D'AMIDE D'ACIDE S--g(a)-CARBOXYLIQUE DE PIPERAZINE

Publication  
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Application  
**EP 96915025 A 19960507**

Priority

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Abstract (en)  
[origin: WO9635775A1] New micro-organisms are capable of using as single nitrogen source piperazine alpha -carboxylic acid amides in the form of their racemate or optically active isomers having general formula (I) and of transforming piperazine (RS)- alpha -carboxylic acid amide having the above-mentioned formula (I) into a piperazine R- alpha -carboxylic acid having the formula (II).

IPC 1-7  
**C12N 1/20**; **C12P 41/00**; **C12P 17/12**

IPC 8 full level  
**C12N 1/20** (2006.01); **C12P 17/12** (2006.01); **C12P 41/00** (2006.01); **C12R 1/38** (2006.01)

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See references of WO 9635775A1

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