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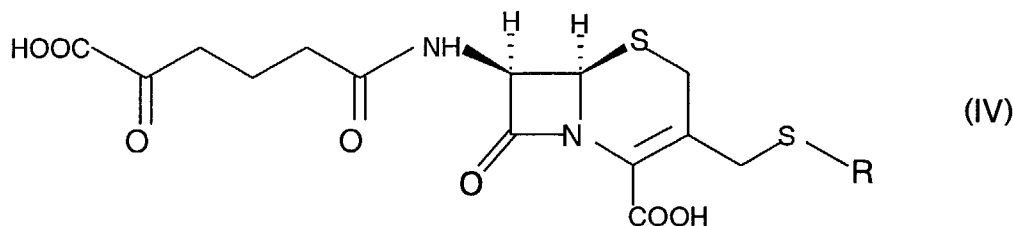
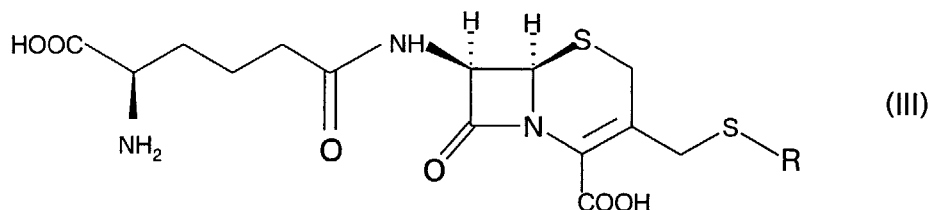
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(54) Title: ENZYMATIC PROCESS FOR PREPARING CEPHALOSPORANIC ACID DERIVATIVES USING α -KETOACID DERIVATIVES



(57) Abstract: A process for preparing cephalosporanic acid derivatives comprises the steps of enzymatically converting a 3-thiolated cephalosporin C compound of formula (III) into a 3-thiolated- α -ketoadipyl-7-aminocephalosporanic acid derivative of formula (IV), wherein R is a heterocyclic group comprising at least a nitrogen atom. Compounds of formula (IV) are used in the preparation of cephalosporin C antibiotics and derivatives thereof.



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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 19 39 341 A (GLAXO LABORATORIES LTD.) 5 February 1970 (1970-02-05) claims 1-40; example 13 ---	1-65
Y	CH 520 709 A (GLAXO LABORATORIES LTD.) 31 March 1972 (1972-03-31) claims 1-39 ---	29, 40-58
Y	BIOTECHNOLOGY AND BIOENGINEERING, vol. 46, no. 6, 1995, pages 510-513, XP001093638 tables I-IV ----- -/--	1-65



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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