

Title (en)

Process for the preparation of clavulinic acid and pharmaceutically acceptable salts from fermentation broths of Streptomyces sp.

Title (de)

Verfahren zur Gewinnung von Klavulinsäure und deren pharmazeutisch annehmbare Salze aus Fermentationskulturen von Streptomyces sp.

Title (fr)

Procédé de préparation de l'acide clavulinique et de ses sels pharmaceutiquement acceptables à partir de bouillons de fermentation de Streptomyces sp.

Publication

**EP 0387178 B9 20020925 (EN)**

Application

**EP 90500023 A 19900228**

Priority

ES 8900748 A 19890301

Abstract (en)

[origin: EP0387178A1] It comprises : (a) flocculation of the culture broth using an inorganic electrolyte as a coagulation agent along with an organic polyelectrolyte as a flocculation coadjuvant; (b) purification of the cited acid contained in the culture broth, once flocculated and decanted, by formation, as stable intermediate products, of salts derived from primary, secondary and tertiary amines; (c) formation of pharmaceutically acceptable salts of the active principle. The cited new process is useful due to its inhibitory activity of beta -lactamases and its marked synergic effect when it is associated with other beta -lactamic antibiotics of the type of penicillin and cephalosporins.

IPC 1-7

**C12P 17/18**; **C07D 498/04**

IPC 8 full level

**C07D 503/00** (2006.01); **C12P 17/18** (2006.01)

CPC (source: EP)

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Cited by

US5821364A; JPH08511010A; EP0562583A1; US5859238A; CN1055694C; US5760218A; US5741903A; AT475U1; GB2282810A; GB2282810B; CN105384758A; US5786351A; MD1738F2; CN108546269A; EP0729961A1; US5726170A; AP749A; EP0719778A1; US5719277A; CN1041933C; AT1446U1; FR2688506A1; JPH0641143A; AU659282B2; AU714017B2; US6133441A; CN1090636C; AT1447U1; EP0699682A1; WO9620199A2; GB2287025A; GB2287026A; DE4345286A1; GB2287026B; DE4345311C1; JPH08157480A; GB2287025B; CN1036592C; CN1037967C; AP471A; AP473A; AP474A; WO0004028A1; WO9325557A1; WO9626944A1; USH2158H; WO9421647A1; WO9422873A1; WO9718216A1; KR100537732B1; EP0941229B1; EP0672669B1

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