

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



RTMP'S COPY

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C07D 503/00	A1	(11) International Publication Number: WO 96/22296 (43) International Publication Date: 25 July 1996 (25.07.96)
(21) International Application Number: PCT/EP96/00270 (22) International Filing Date: 17 January 1996 (17.01.96) (30) Priority Data: 9500977.5 19 January 1995 (19.01.95) GB (71) Applicant (for all designated States except US): SMITHKLINE BEECHAM P.L.C. [GB/GB]; New Horizons Court, Brentford, Middlesex TW8 9EP (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): RUDDICK, Simon [GB/GB]; SmithKline Beecham Pharmaceuticals, Clarendon Road, Worthing, West Sussex BN14 8QH (GB). (74) Agent: WALKER, Ralph, Francis; SmithKline Beecham, Corporate Intellectual Property, SB House, Great West Road, Brentford, Middlesex TW8 9BD (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AZ, BY, KG, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: CLAVULANIC ACID EXTRACTION PROCESS (57) Abstract A back extraction process in which beta-lactam antibiotics or clavulanic acid is extracted from an organic solvent phase into an aqueous medium phase, using a mixing region in which the phases are mixed rapidly under high turbulence and shear stress.		