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(21) International Application Number: PCT/NL99/00247 (22) International Filing Date: 27 April 1999 (27.04.99) (30) Priority Data: 98201399.7 29 April 1998 (29.04.98) EP (71) Applicant (for all designated States except US): DSM N.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): LEENDERTS, Everardus, Johannes, Anthonius, Maria [NL/NL]; Nachtwaker 61, NL-3161 LL Rhoon (NL). EL SAYAD, Hassan, Aly [US/EG]; 28 Hesham Labib Street, 8th District Nasr City, Cairo (EG). WALRAVEN, Hubertus, Gerardus, Maria [NL/NL]; Van Vredenburgweg 787, NL-2284 TM Rijswijk (NL). WESSELING, Jolanda [NL/NL]; Noorderhavenkade 71b, NL-3039 RJ Rotterdam (NL). (74) Agent: JACOBS, Monique, Sophie, Nicole; Octrooibureau DSM, P.O. Box 9, NL-6160 MA Geleen (NL).	(81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	
(54) Title: PREPARATION OF β -LACTAM ANTIBIOTICS IN THE PRESENCE OF UREA OR AMIDE		
(57) Abstract A process to prepare a crystalline β -lactam compound by the addition of a base to an acidic solution of a β -lactam compound obtained by the addition of an acid to a solution or suspension of a β -lactam compound obtained by (a) an acylation reaction of 6-amino-penicillanic acid, 7-amino-cephalosporanic acid, 7-amino-3'-desacetoxycephalosporanic acid or 3-chloro-7-aminodesacetoxydesmethylcephalosporanic acid or derivatives thereof with a mixed-anhydride of the Dane salt of any one of the compound comprising D-phenyl-glycine, D-p-hydroxyphenyl-glycine, D-2(1,4-cyclohexadien-1-yl)glycine or (2-aminothiazol-4-yl)-(2-methoxy-imino-acetic acid) in one or more organic solvents, or (b) dissolving or suspending a crude β -lactam compound in a solution comprising water and/or one or more organic solvents, wherein, to the solution or suspension of a β -lactam compound, urea or derivatives thereof and/or amide or derivatives thereof are added.		