

บรรณานุกรม

1. กล้าณรงค์ ศรีรอด. เทคโนโลยีของแป้ง. กรุงเทพฯ : บริษัท เท็กซ์ แอนด์ เจอร์นัล พับลิเคชั่น จำกัด, 2542.
2. Newman, W., Ronald, L., Mueller and Imre, M. : "Starch." in *Analytical Profiles of Drug Substances and Excipients*, Vols. 24. Academic Press, Inc., pp. 523 - 575, 1996.
3. Zobel, W. and Hebeda, E. : "Starch : Sources, Production, and Properties." in *Starch Hydrolysis Products : world technology production and applications*. VCH Publishers, Inc., pp. 23 - 44, 1992.
4. Wade, A. and Weller, P. : *Handbook of Pharmaceutical Excipient* Washington. 2 nd ed. The Pharmaceutical Press, London, pp. 483 - 488, 1994.
5. Whistler, L. and Daniel, R. : "Molecular structure of starch." in *Starch Chemistry and Technology*, 2 nd ed. Academic Press, Inc., pp. 153 - 182, 1984.
6. Manners D.J. The Structure and metabolism of starch. *Essays Biochem.* 1974 ; 10 : 37 - 71.
7. Beynum, G.M.A., Van and Roels, J.A. : *Starch Conversion Technology*. Marcel Dekker, Inc., New York., pp. 362, 1985.
8. Larsson K. Structure of the starch granule a curve crystal. *Acta. Chem. Scand.* 1991 ; 45 (8) : 840 - 843.
9. Jenkins P.J. and Donald A. M. The influence of amylose on starch granule structure. *Int. J. Biol. Macromol.* 1995 ; 17 (6) : 315 - 321.
10. Waniska D. and Gomez H. Dispersion Behavior of Starch. *Food Technology*. 1992 : 110 - 123.
11. Hamdi G. and Ponchel G. Enzymatic degradation of epichlorohydrin crosslinked starch microspheres by alpha - amylase. *Pharm Res.* 1990 ; 16 (6) : 867 - 875.

12. Visavarungroj N. and Remon J.P. Crosslinked starch as a disintegration agent. *Int. J. Pharm.* 1990 ; 62 (31) : 125 - 131.
13. Lichnerova I. and Chalabala M. Solubilizing ability of oxidized starches. *Farm - Obz.* 1982 ; 51 : 409 - 414.
14. Mullick S. and Bandyopadhyay A.K. Development of some new direct compression carriers from indigenous starches for tablet compression. *Indian drugs* 1992 ; 29 : 676 - 679.
15. Li L.C. and Peck G.E. Effect of moisture content on the compression properties of maltodextrins. *J. Pharm. Pharmacol.* 1990 ; 42 : 272 - 275.
16. Te Wierik G.H., Ramaker J., and Eissens A.C. High surface area starch products as filler - binder in direct compression tablet. *Pharmazie.* 1996 ; 51 : 311 - 315.
17. Bott D.E., Hopley P.J., and Leach R.H. Studies with Caloreen, a glucose polymer mixture. *Pharm. J.* 1970 ; 204 : 583 - 584.
18. Makino T., Yamanaka M., and Kitamori N. Behavior of pregelatinized starch during granulation and its influence on tablet properties. *Chem. Pharm. Bull.* 1995 ; 43 : 2264 - 2266.
19. Michailova V., Titeva S., and Kotsilkova. Influence of hydrogel structure on the processes of water penetration and drug release from mixed hydroxypropylmethyl cellulose / thermally pregelatinized waxy maize starch hydrophilic matrices. *Int. J. Pharm.* 2001 ; 222 (1) : 7 - 17.
20. Lorenz K. and Kulp K. Cereal - and root starch modification by heat - moisture treatment. *Starch / starke* . 1982 ; 34 (2) : 50 - 54.
21. Le Bail P., Morin F.G., and Marchessault. Characterization of a crosslinked high amylose starch excipient. *Int. J. Biol. Macromol.* 1999 ; 26 (2 - 3) : 193 - 200.
22. De Kerf M. and Mondelaers W. Characterization and disintegration properties of irradiated starch. *Int. J. Pharm.* 2001 ; 221 (1 - 2) : 69 - 76.
23. Nagar MS., Meshram RN., and Ramprakash G. Solid dispersion of hydroxypropyl beta - cyclodextrin and ketorolac : enhancement of in - vitro dissolution rates, improvement in anti - inflammatory activity and reduction in ulcerogenicity in rats. *J. Pharm. Pharmacol.* 2000 ; 52 (8) : 949 - 956.

24. Okafor I.S. A Comparative study of modified starches in direct compression of a water soluble drug - chloroquine phosphate. *Boll. Chim. Fram.* 2000 ; 139 (6) : 252 - 255.
25. Bouckaert S. In Vitro bioadhesion of a buccal, miconazole slow release tablet. *J. Pharm. Pharmacol.* 1993 ; 45 (6) : 504 - 507.
26. Vermeire A., Kiekens F., Corveleyn S., and Ramon J.P. Evaluation of the emulsifying properties of some cationic starches. *Drug. Dev. Ind. Pharm.* 1999 ; 25 (3) : 367 - 371.
27. Sanchez L., Torrado S., and Lastres J.L. Gelatinized / freeze - dried starch as a excipient in sustained release tablet. *Int. J. Pharm.* 1995 ; 115 (7) : 201 - 208.
28. Bandyopadhyay A.K., Chaudhuri B., and Bhattacharjee P.R. Starch paste granulation Part 1 Effects of dextrinized corn starch mucilages as binding agents on granulation and tablet quality. *Aust. J. Pharm. Sci.* 1980 ; 9 : 85 - 89.
29. Degering, E.F. : "The ethers of starch." in *Starch and its derivatives*. The Alunin press Ltd., London, pp. 327 - 331, 1953.
30. Johnson, J.C. : "Modified and specialty starches." in *Industrial Starch Technology Recent Developments*. Noy Data Corporation, New Jersey, pp. 3 - 73, 1979.
31. Kwon, et al. "Carboxymethyl - etherified starch derivatives and process for preparing the same" U.S. Pat 5,811,541 Sep. 22, 1998.
32. Hebeish A., Khalil M.I., Hashem A., and Dokki C. Carboxymethylation of Starch and Oxidized Starches. *Starch / starke*. 1990 ; 42 : 185 - 191.
33. Filbert, W. "Carboxymethyl ethers" U.S. Pat 2,599,620 Jun. 10, 1952.
34. Hosokawa, et al. "Textile printing paste composition with highly substituted carboxymethyl cellulose" U.S. Pat 4,426,206 Jan. 17, 1984.
35. Holst, et al. "Process for the manufacture of absorbent, modified starch ethers and their use" U.S. Pat 4,117,222 Sep. 26, 1978.
36. Wade, A. and Weller, P. : *Handbook of Pharmaceutical Excipient* Washington. The Pharmaceutical Press, London, pp. 78 - 81, 1994.

37. Mishra P., Jain A., and Agrawal R.K. Studies on starch derivatives. Part 1 Sodium O-Carboxymethyl starch as a suspending agent. *Indian J. Nat. Prod.* 1990 ; 6 (1) : 20 - 25.
38. Rehula M. and Muzik M. Effect of the degree of substitution and the degree of cross-linking on the effectiveness of the disintegrating agent starch carboxymethylether. *Folia Pharm.* 1989 ; 14 (1) : 35 - 43.
39. Baie S., and Animah F. Effects of carboxymethylation and crosslinking on the disintegration and swelling properties of tapioca starch. *Pharm. Technol. Eur.* 1995 ; 7 : 14 - 16.
40. Bloch D.W. and Speiser P.P. Solid Dispersions - Fundamentals and Examples. *Pharm. Acta. Helv.* 1987 ; 62 (1) : 23 - 27.
41. Chiou W.L. and Riegleman S. Pharmaceutical Applications of Solid Dispersion Systems. *J. Pharm. Sci.* 1971 ; 60 (9) : 1281 - 1302 .
42. Hideshi S. and Hisakazu S. Comparison of Nicotinamide, Ethylurea and Polyethylene Glycol as carriers for Nifedipine Solid dispersion systems. *Chem. Pharm. Bull.* 1997 ; 45 (10) : 1688 - 1693.
43. Noriyuki H., Hirokazu O., and Kazumi D. Lactose as Low Molecular Weight Carrier of Solid dispersion for carbamazepine and Ethenzamide. *Chem. Pharm. Bull.* 1999 ; 47 (3) : 417 - 420.
44. Naonori K. and Yasuko Y. Improving the Oral Bioavailability of Albendazole in rabbits by the Solid dispersion Technique. *J. Pharm. Pharmacol.* 1999 ; 51 : 159 - 164.
45. Naomi Y., Yuhji T., and Harumi K. Dissolution Behavior of Probucol from solid dispersion Systems of Probucol - Polyvinylpyrrolidone. *Chem. Pharm. Bull.* 1996 ; 44 (1) : 241 - 244.
46. Martinez - Oharriz M.C. and Goni M.M. Influence of polyethylene glycol 4000 on the polymorphic forms of difunisal. *Eur. J. Pharm. Sci.* 1999 ; 8 (2) : 127 - 132.
47. Samy E.M., Hassan M.A., Tous S.S., and Rhodes C.T. Improvement of availability of allopurinol from pharmaceutical dosage forms I - suppositories, *Eur. J. Pharm. Biopharm.* 2000 ; 49 (2) : 119 - 127.

48. Velaz I., Sanchez M., and Martin C. Effect of PEG 4000 on the dissolution rate of naproxen. *Eur. J. Drug Metab. Pharmacokinet.* 1998 ; 23 (2) : 103 - 108.
49. Martnez P. Preparation and dissolution rate of gliquidone - PVP K30 solid dispersions. *Eur. J. Drug Metab. Pharmacokinet.* 1998 ; 23 (2) : 113 - 117.
50. Ikeda Y., Kimura K., and Hirayama F. Controlled release of a water - soluble drug, captopril, by a combination of hydrophilic and hydrophobic cyclodextrin derivatives, *J. Control. Release.* 2000 ; 66 (2 - 3) : 271 - 280.
51. Hiroshi Y., Tetsuya O., Yoshio K., and Katsutoshi O. Application of the Solid dispersion Method to the Controlled Release of Medicine IV. Precise Control of the release Rate of a Water Soluble Medicine by using the Solid dispersion. Method Applying the Difference in the Molecular Weight of a polymer. *Chem. Pharm. Bull.* 1993 ; 41 (5) : 933 - 936.
52. Hiroshi Y., Hiroyuki T., and Tetsuya O. Application of the solid Dispersion Method to the controlled Release of Medicine III. Control of the Release Rate of Slightly Water Soluble Medicine from solid dispersion granules. *Chem. Pharm. Bull.* 1993 ; 41 (2) : 397 - 399.
53. Ford J.S. and Rubinstein M. H. Phase equilibrium and dissolution rates of indomethacin - polyethylene glycol 6000 Solid dispersion. *Pharm. Acta. Helv.* 1978 ; 53 : 327 - 332.
54. Chio W.L. Mechanism of increased rates of dissolution and oral absorption of chloramphenical from chloramphenical - urea solid dispersion system. *J. Pharm. Sci.* 1971 ; 60 : 1406 - 1408.
55. Chiou W. L. and Niazi S. Pharmaceutical applications of solid dispersion systems : dissolution of griseofulvin - succinic acid eutectic mixture. *J. Pharm. Sci.* 1976 ; 65 : 1212 - 1214.
56. Pan R. N., Chen J. H., and Chen R. R. Enhancement of dissolution and bioavailability of piroxicam in solid dispersion systems. *Drug Dev Ind. Pharm.* 2000 ; 26 (9) : 989 - 994.

57. Dubernet C., Rouland J. C., and Benoit J. P. Ibuprofen - loaded ethylcellulose microspheres : analysis of the matrix structure by thermal analysis. *J. Pharm. Sci.* ; 1991 ; 80 (11) : 1029 - 1033.
58. Loyd A., Saul R., and DE Montono. Dissolution Rates of Hydrocortisone and Prednisolone Utilizing Sugar Solid Dispersion Systems in tablet Form. *J. Pharm. Sci.* 1978 ; 67 (7) : 979 - 981.
59. Ghanem A., Meshali M., and Ibraheem Y. Dissolution rates of sulfamethoxazole utilizing sugar glass dispersions. *J. Pharm. Pharmacol.* 1980 ; 32 : 675 - 677.
60. Chiou W. L. and Niazi S. Phase diagram and dissolution - rate studies on sulfathiazole - urea solid dispersions. *J. Pharm. Sci.* 1971 ; 60 : 1333 - 1337.
61. Suzuki H. and Sunada H. Influence of water - soluble polymers on the dissolution of nifedipine solid dispersions with combined carriers. *Chem. Pharm. Bull. (Tokyo)* 1998 ; 46 (3) : 482 - 487.
62. Te Wierik G.H., Eissens A.C., Besemer A. C., and Lerk C. K. Preparation, characterization and pharmaceutical application of linear dextrans II. Complexation and dispersion of drugs with amylopectin by freeze - drying and kneading. *Pharm. Res.* 1993 ; 10 (9) : 1280 - 1284.
63. Geneidi A.S., Ali A.A., and Salama R.B. Solid dispersions of nitrofurantoin, ethotoin, and coumarin with polyethylene glycol 6000 and their coprecipitates with povidone 25000. *J. Pharm. Sci.* 1978 ; 67 : 114 - 116.
64. Craig D.Q. and Newton J.M. Characterization of polyethylene glycols using solution calorimetry. *Int. J. Pharm.* 1991 ; 74 : 43 - 48.
65. Jachowicz R., Nurnberg E., and Pieszczyk B. Solid dispersion of ketoprofen in pellets. *Int. J. Pharm.* 2000 ; 206 (1 - 2) : 13 - 21.
66. Banna H. M. Solid dispersion of pharmaceutical ternary systems I : Phase diagram of aspirin - acetaminophen - urea system. *J. Pharm. Sci.* 1978 ; 67 (8) : 1109 - 1111.
67. Kwon H.K., Michael J.F., and Norman L.H. Application of Differential Scanning Calorimetry to the Study of Solid Drug Dispersions. *J. Pharm. Sci.* 1985 ; 74 (3) : 283 - 288.

68. Li Y.P., Zhang X.Y., Zhou J.J., and Pei Y.Y. Preparation and dissolution property of ipriflavone solid dispersion. *Zhongguo Yao Li Xue Bao* 1999 ; 20 (10) : 957 - 960.
69. Horisawa E., Danjo K., and Haruna M. Physical properties of solid dispersion of a nonsteroidal anti - inflammatory drug (M - 5011) with Eudragit E. *Drug Dev. Ind. Pharm.* 2000 ; 26 (12) : 1271 - 1278.
70. Chiou W.L. Pharmaceutical Applications of Solid Dispersion Systems : X - Ray Diffraction and Aqueous Solubility Studies on Griseofulvin - Polyethylene Glycol 6000 Systems. *J. Pharm. Sci.* 1977 ; 66 (7) : 989 - 991.
71. Okonogi S., Oguchi T., and Yonemochi E. Physicochemical Properties of Ursodeoxycholic Acid Dispersed in Controlled Pore Glass. *J. Colloid Interface Sci.* 1999 ; 216 (2) : 276 - 284.
72. Ozkan Y., Doganay N., and Kikmen N. Physicochemical characterizations of piroxicam - poloxamer solid dispersion. *Pharm. Dev. Technol.* 1997 ; 2 (4) : 403 - 407.
73. Van den Mooter G., Wuyts M., and Bleton N. Physical stabilization of amorphous ketoconazole in solid dispersions with polyvinylpyrrolidone K 25. *Eur. J. Pharm. Sci.* 2001 ; 12 (3) : 261 - 269.
74. Khan G. M. and Jiabi Z. Preparation Characterization, and dissolution studies of ibuprofen solid dispersions using polyethylene glycol (PEG) , talc, and PEG - talc as dispersion carriers. *Drug Dev. Ind. Pharm.* 1998 ; 24 (5) : 455 - 462.
75. Trapani G. and Franco M. Physicochemical characterization and in vivo properties of Zolpidem in solid dispersions with polyethylene glycol 4000 and 6000. *Int. J. Pharm.* 1999 ; 184 (1) : 121 - 130.
76. Chutimaworapan S. and Ritthidej G. C. Effect of water - soluble carriers on dissolution characteristics of nifedipine solid dispersions. *Drug. Dev. Ind. Pharm.* 2000 ; 26 (11) : 1141 - 1150.
77. Ozkan Y. and Doganay N. Enhanced release of solid dispersions of etodolac in polyethylene glycol. *Farmaco.* 2000 ; 55 (6 - 7) : 433 - 438.

78. Rouchotas C., Cassidy O.E., and Rowley G. Comparison of surface modification and solid dispersion techniques for drug dissolution. *Int. J. Pharm.* 2000 ; 195 (1 - 2) : 1 - 6.
79. Jung J. Y., Yoo S.D., and Lee S. H. Enhanced solubility and dissolution rate of itraconazole by a solid dispersion technique. *Int. J. Pharm.* 1999 ; 187 (2) : 209 - 218.
80. Tantishaiyakul V. and Kaewnopparat N. Properties of solid dispersions of piroxicam in polyvinylpyrrolidone. *Int. J. Pharm.* 1999 ; 181 (2) : 143 - 151.
81. Pascal, R.D. : *MIMS Annual Thailand*. Medimedia International group, Singapore, pp. 1027 - 1034, 1997.
82. The United States Pharmacopeial United Convention : *The USP DI Volume III*, 18 th ed. World Color Book Services, Massachusetts, pp. 353, 1998.
83. Okonogi S., Oguchi T., Yonemochi E., Puttipatkhachorn S., and Yamamoto K. Improved dissolution of ofloxacin via solid dispersion. *Int. J. Pharm.* 1997 ; 156 : 175 - 180.
84. Nakamichi, et al. "Method of manufacturing solid dispersion" U.S. Pat 5,456,923 Oct. 10, 1995.
85. Okada H. and Kimura S. Topical application of the controlled release strips containing ofloxacin (PT - 01) in periodontal therapy. *Nippon Shishubyo Gakkai Kaishi* 1988 ; 30 (4) : 1141 - 1155.
86. The United States Pharmacopeial United Convention : *The United States Pharmacopeia XXIII and the National Formulary XVIII.* , pp. 2238, 1995.
87. Bhattacharyya D., Singhal R.S., and Kulkarni P.R. Comparative account of conditions for synthesis of sodium carboxymethyl starch from corn and amaranth starch. *Carbohydrate Polymers*. 1995 ; 27 (4) : 247 - 253.
88. Lyne F. A. : "Chemical Analysis of Raw and Modified Starches." in *Examination and analysis of starch and starch products*. Applied science publishers Ltd., London, pp. 133 - 165.

89. Ford J. and Timmins P. : "The use of thermal analysis in the study of solid dispersions." in *Pharmaceutical Thermal Analysis, Techniques and Applications*. Ellis Horwood Ltd., pp. 150 - 179.
90. Abdou, Hamed M. ; *Dissolution, Bioavailability and Bioequivalence*. Pennsylvania : Mack Publishing Co., 1989.
91. Wade, A. and Weller, P. : *Handbook of Pharmaceutical Excipient Washington*. 2 nd ed. The Pharmaceutical Press, London, pp. 289 - 291, 1994.