

เอกสารอ้างอิง

- กล้านรงค์ ศรีรอด และเกื้อญล ปิยะจอมชรัญ. (2546). เทคโนโลยีของแบง (พิมพ์ครั้งที่ 3). กรุงเทพ : สำนักพิมพ์มหาวิทยาลัยเกษตรศาสตร์.
- นิชิยา รัตนาปันธ์. (2539). เคมีอาหาร. เชียงใหม่ : ภาควิชาจุฬาภรณ์และเทคโนโลยีการอาหาร คณะอุตสาหกรรมการเกษตร มหาวิทยาลัยเชียงใหม่.
- นัยทัศน์ ภู่ศรัณย์. (2521). การสกัดเพคตินจากผลไม้บางชนิด. กรุงเทพ : วิทยานิพนธ์ปริญญาโท คณะอุตสาหกรรมการเกษตร มหาวิทยาลัยเกษตรศาสตร์.
- Alexos, M.A.V. and Thibault, J.F. (1991). The chemistry of low methoxy pectin. Academic Press. New York. 109–118.
- Ashford, M., Fell, J., Attwood, D., Sharma, H., and Woodhead, P. (1993). An evaluation of pectin as a carrier for drug targeting to the colon, *Journal of Controlled Release*, 26(3), 213–220
- Ashford, M., Fell, J., Attwood, D., Sharma, H., and Woodhead, P. (1994). Studies on pectin formulations for colonic drug delivery, *Journal of Controlled Release*, 30(3), 225–232
- Baker. A. (1994). Resistant starch as a prebiotic. *Food Technology* (Chicago). 48 (11): 133.
- Beynum, G.M.A., and Roels, J.A. (1985). Starch conversion technology. Marcel Dekker, Inc., New York. 326 P.
- Bourgeois, S., Laham, A., Besnard, A., Andremont, A., and Fattal, E. (2005). *In vitro* and *in vivo* evaluation of pectin beads for the colon delivery of β -lactamases, *Journal of Drug Targeting*, 13(5), 277–284.
- British Pharmacopoeia, 1993. British Pharmacopoeia Commission.
- Brouns, F., Kettlitz, B., and Arrigoni, E. (2002). Resistant Starch and the butyrate revolution. *Trends in Food Science & Technology* 13, 251–261.



- Chambin, O., Dupuis, G., Champion, D., Voilley A. and Pourcelot, Y. (2006). Colon-specific drug delivery: Influence of solution reticulation properties upon pectin beads performance, Int. J. Pharm, 321, 86–93.
- Charley, H. and Weaver, C. (1998). Food : A scientific approach. New Jersey : Pectin- Hall.
- Christensen, S.H. (1986). Pectins, in food hydrocolloids, vol.III ed. Glicksmn, CRC Press, Boca raton, FL, 206–207.
- Das, S. and Ng, K.T. (2010). Colon-specific delivery of resveratrol: Optimization of multi-particulate calcium-pectinate carrier. International Journal of Pharmaceutics. 385: 20–28.
- Englyst, H.N., Kingman, S.M. and Cummings, J.H. (1992). Classification and measurements of nutritionally important starch fraction. European Journal of Clinical Nutrition. 46 (2): S33–S50.
- Evans, D.F., Pye, G., Bramley, R., Clark, A.G., Dyson, T.J., and Hardcastle, J.D. (1988). Measurement of gastrointestinal pH profiles in normal ambulant human subjects. Gut. 29, 1035–1041.
- Fukui, E., Miyamura, N., Uemura, K., and Kobayashi, M. (2000). Preparation of enteric coated tablets and evaluation of their function by *in vitro* test for colon targeting. Int. J. Pharm. 204, 7–15.
- Garcia, A., Antonio, J.E., and Nuria, M.C. (1999). Assessment of some parameters involved in the gelatinization and retrogradation of starch. Food Chemistry. 66, 181–187.
- Jane, J., Xu, A., Rodosavljevic, M., and Seib, A. (1992). Location of amylose in normal starch granule : susceptibility of amylose and amylopectin to cross-linking. Cereal Chemistry. 69(4), 405–409.
- Kadan, R.S., Champagne, E.T., Ziegler, G.M. and Richard, A.O. (1997). Amylose and pectin contents of rice cultivars as related to texture of rice-based fries. Journal of Food Science ; 62 (4) : 701–703.

- Khan, M.Z.I., Prebeg, Z., and Kurjakovic, N. (1999). A pH-dependent colon targeted oral drug delivery system using methacrylic acid copolymers. I. Manipulation of drug release using Eudragit L100-55 and Eudragit S100 combinations. *J. Control. Release.* 58, 215–222.
- Larsen, C., Harboe, E., Johansen, M., and Olesen, H.P. (1989). Macromolecular prodrugs. XVI. Colon-targeted delivery—comparison of the rate of release of naproxen from dextran ester prodrugs in homogeneous of various segments of the pig gastrointestinal (GI) tract. *Pharm. Res.* 6, 995–999.
- Liu, L. S., Fishman, M. Hicks, K., Kende, M. and Ruthel, G. (2006). Pectin/Zein Beads for Potential Colon-Specific Drug Delivery: Synthesis and *in vitro* Evaluation. *Drug Delivery.* 13(6): 417–423.
- Liu, L., Fishman, M., Kost, J. and Hicks, K.B. (2003). Pectin-based systems for colon-specific drug via oral route. *Biomaterials.* 24: 3333–3343.
- Macleod, G.S., Fell, J.T., Collett, J.H., Sharma, H.L., and Smith, A.M. (1999). Selective drug delivery to the colon using pectin:chitosan:hydroxypropyl methylcellulose film coated tablets. *Int. J. Pharm.* 5;187(2), 251–257.
- Makino, T. and Kitamori, (1995). Importance of gelatinization degree of starch paste binder in hardness and disintregation time of tablets. *Chem. Pharm. Bull.* 43 (3) : 514–516.
- Mura, P., Maestrelli, F., Cirri, M., Gonzalaz-Rodriguez, M.L. and Rabasco, A.M. (2003). Development of enteric-coated pectin-based matrix tablets for colonic delivery of theophylline. *Journal of Drug Target.* 11 : 365–371.
- Nugent, A.P. (2005). Health properties of resistant starch. *British Nutrition Foundation Nutrition Bulletin.* 30 (1): 27–54.
- Oates, C.G. Physical modification of starch. (1996). In advanced post academic course on tapioca starch technology. Jan. 22–26 & Feb. 19–23. AIT Center, Bangkok.
- Rolin, C. and De Vries, J.D. (1990). Pectin in food gels. *Applied Science,* London, 401–434.

- Rubinstein, A., Radai, R., Ezra, M., Pathak, S. and Rokem, J.S. (1993). In vitro evaluation of calcium pectinate : a potential colon-specific drug delivery carrier. *Pharmaceutic Res.* 10 : 258–263.
- Sande, S.A. (2005). Pectin-based oral drug delivery to the colon. *Expert Opinion on Drug Delivery.* . 2 (3), 441–450.
- Sievert, B., and Pomeranz, Y. (1989). Enzyme-resistant starch I, characterization and evaluation by enzymatic, thermoanalytical and microscopic methods. *Cereal Chemistry.* 66(4) , 342–347.
- Sriamornsak, S., Puttipipatkhachorn, S., and Prakongpan, S. (1997). Calcium pectinate gel coated as an alternative carrier to calcium pectinate beads. *Int J Pharm.* 156, 189–94.
- Sriamornsak P. (1998). Investigation of pectin as a carrier for oral delivery of proteins using calcium pectinate gel beads, *Int. J. Pharm.* 169, 213–220.
- Sriamornsak, P. and Nunthanid J. (1998). Calcium pectinate gel beads for controlled release drug delivery: I. Preparation and in vitro release studies. *International Journal of Pharmaceutics.* 160: 207–212
- Sriamornsak, P. (1999). Effect of calcium concentration, hardening agent and drying condition on release characteristics of oral proteins from calcium pectinate gel beads. *Eur. J. Pharm. Sci.* 8, 221–227.
- Sriamornsak, P., Thirawong, N., and Puttipipatkhachorn, S. (2004). Morphology and buoyancy of oil-entrapped calcium pectinate gel beads. *AAPS J.* 4; 6 (3): article 24.
- Takeuchi, H., Yasuji, T., Yamamoto, H., and Kawashima, Y. (2000). Spray-dried lactose composite particles containing an ion complex of alginate–chitosan for designing a dry-coated tablet having a time-controlled releasing function. *Pharm. Res.* 17, 94–99.
- Thakur, B.R., Singh, R.K., and Honda, A.D. (1997). Chemistry and use of pectin. *Critical Reviews in Food Science And Nutrition,* 37(1), 47–73.



The International Pectin Producer Association (IPPA). (2004). What is pectin. Retrieved September 8, 2010, from <http://www.ippa.org/structure.htm>.

Topping, D.L., Fukushima, M., and Bird, A.R. (2003). Resistant starch as a prebiotic and symbiotic: state of the art. *Proceedings of the Nutrition Society* 62, 171–176.

Wong, D., Larrabee, S., Clifford, K., Tremblay, J., and Driend, D.R. (1997). USP Dissolution apparatus III (reciprocating cylinder) for screening of guar-based colonic delivery formulation. *J. Control. Release* 47, 173–179.

Wurzburg, O.B. (1972). Starch in the food industry. *CRC handbook food additives*. 12, 361–395.

Yang, L., Chu, J., and Fix, J. (2002). Colon-specific drug delivery: New approaches and in vitro/ in vivo evaluation. *International Journal of Pharmaceutics*. 235: 1–15.

