

เอกสารอ้างอิง

- นิยม กำลังดี และสมรักษ์ พันธ์ผล. 2539. การศึกษาหาสภาวะที่เหมาะสมในการผลิตกลูโคสจากแป้งสาคูดับด้วยเย็น ใช้มีจากเชื้อรา. รายงานการวิจัย. ภาควิชาชีวเคมี คณะวิทยาศาสตร์ และเทคโนโลยี มหาวิทยาลัยสงขลานครินทร์ วิทยาเขตปัตตานี.
- ปราภี อ่านเบรื่อง. 2543. เอนไซม์ทางอาหาร. พิมพ์ครั้งที่ 3. สำนักพิมพ์จุฬาลงกรณ์มหาวิทยาลัย, กรุงเทพ. 440 หน้า.
- ระพีพรรณ เติมตันท์. 2547. องค์ประกอบและคุณสมบัติของสารชีวภาพจากแบคทีเรียนร้อน *Acinebacter* sp. FT3 และ *Gemella* sp. CH11. วิทยานิพนธ์วิทยาศาสตร์ มหาบัณฑิต สาขาวิชาเทคโนโลยีชีวภาพ มหาวิทยาลัยสงขลานครินทร์.
- วิชุดา เกตุใหม่. 2546. การศึกษาการผลิต การทำให้บริสุทธิ์และคุณลักษณะของเย็น ใช้มีจาก โคละไมเลสจากเชื้อ *Aspergillus niger* TISTR 3254. วิทยานิพนธ์วิทยาศาสตร์ มหาบัณฑิต สาขาวิชาเทคโนโลยีชีวภาพ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง.
- ศิริพร หมายหล้า. 2544. การคัดเลือกแบคทีเรียนอุณหภูมิสูงที่ผลิตโพลิเมอร์ การจำแนกชนิดและคุณสมบัติของโพลิเมอร์. วิทยานิพนธ์วิทยาศาสตร์ มหาบัณฑิต สาขาวิชาเทคโนโลยีชีวภาพ มหาวิทยาลัยสงขลานครินทร์.
- ศุภศิลป์ มนีรัตน์. 2543. เอ็กโซโพลีแซคคาไรด์จากแบคทีเรียแลกติก. ว.ส.งขลานครินทร์ (วิทยาศาสตร์และเทคโนโลยี) ปีที่ 22 ฉบ. 3: 397- 402.
- Abd-aziz, S. 2002. Sago starch and its utilisation. J. Biosci. Bioeng. 94 : 526-529.
- Adachi, S., Itoh, T., Toba, T., Arihara, K. and Mukai, T. 1990. Ecology of lactic acid bacteria with special reference to kefir-granule formation by *Lactobacillus kefiranofaciens*. Biseibutsu. 6: 15-26.
- Ahmad, F. B., Williams, P. A., Doublier, J-L., Durand, S. and Buleon, A. 1999. Physico-chemical characterization of sago starch. Chabohydrate Polym. 38: 361-370.
- Anuradha, R., Suresh, A.K. and Venkatesh, K.V. 1999. Simultaneous saccharification and fermentation of starch to lactic acid. Process Biochem. 35: 367-375.
- Arihara, K., Toba, T. and Adachi, S. 1990. Immunofluorescence microscopic studied on distribution of *Lactobacillus kefiranofaciens* and *Lactobacillus kefir* in kefir grain. Int. J. Food Microbiol. 11: 127-134.

- Bebic, Z., Jakovljevic, J. and Baras, J. 2000. The corn starch hydrolyzate as a fermentation substrate for ethanol production. *Chem Ind.* 54: 5-9.
- Cathy J. Saloff-Coste. 2005. Kefir grains (Online). Available :
<http://www.torontoadvisor.com/Kefir/article1.htm>[2005, May, 24]
- Cerning, J., Renard, C.M.G.C., Thibault, J.F., Boullanne, C., Landon, M., Desmazeaud, M. and Topisirovic, L. 1994. Carbon source requirements for exopolysaccharide production by *Lactobacillus casei* CG11 and partial structure analysis of the polymer. *Appl. Environ. Microbiol.* 60: 3914-3919.
- Charoenlap, N., Dharmsthit, S., Sirisansaneeyakul, S. and Lertsiri, S. 2004. Optimization of cyclodextrin production from sago starch. *Biores. Technol.* 92: 49-54.
- Cheirsilp, B. 2003. Development of kefiran fermentation process by *Lactobacillus kefirnfaciens*. Dept. of Biotechnology Graduate School of Engineering Osaka University.
- Cheirsilp, B., Shimizu, H. and Shioya, S. 2001. Modelling and optimization of environmental conditions for kefiran production by *Lactobacillus kefirnfaciens*. *Appl. Microbiol. Biotechnol.* 57: 639–646.
- Cheirsilp, B., Shimizu, H. and Shioya, S. 2003. Enhanced kefiran production by mixed culture of *Lactobacillus kefirnfaciens* and *Saccharomyces cerevisiae*. *J. Biotechnol.* 100: 43–53.
- Choteborska, P., Palmarola-Adrados, B., Galbe, M., Zacchi, G., Melzoch, K. and Rychtera, M. 2004. Process of wheat bran to sugar solution. *J. Food Eng.* 61: 561-565.
- Fabiano, B. and Perego, P. 2002. Thermodynamic study and optimization of hydrogen production by *Enterobacter aerogenes*. *Int. J. Hydrogen Energy.* 27: 149-156.
- Gaspar, M., Juhasz, T., Szengyel, Z. and Reczey, K. 2005. Fractionation and Utilization of corn fibre carbohydrates. *Process Biochem.* 40: 1183-1188.
- Gasse, M.A., Schmidt, K.A. and Frank, J.F. 1997. Exopolysaccharide production from whey lactose by fermentation with *Lactobacillus delbrueckii* ssp. *Bulgaricus*. *J. Food Sci.* 62: 171-173.

- Grobben, G.J., Van Casteren, W.H.M., Schols, H.A., Oosterveld, A., Sala, G., Smith, M. R., Sikkems, J. and de Bont, J.A.M. 1997. Analysis of exopolysaccharide produced by *Lactobacillus delbrueckii* subsp. *Bulgaricus* NCFB2772 grown in continuous culture on glucose and fructose. *Appl. Microbiol. Biotechnol.* 48: 516-532.
- Gumbira-Sa'id, E. 1995. Research and development on the utilization of sago palm in Indonesia. *Fifth Int. Sago Symposium, Acta Horticulture.* 389: 269-278.
- Hofvendahl, K. and Hahn-Hagerdal, B. 2000. Factors effecting the fermentative lactic acid production from renewable resources. *Enzyme Microb. Technol.* 26: 87-107.
- Huang, L. P., Jin, B., Lant, P. and Zhou, J. 2005. Simultaneous saccharification and fermentation of potato starch wastewater to lactic acid by *Rhizopus oryzae* and *Rhizopus arrhizus*. *Biochem. Eng. J.* 23: 265-276.
- Iwasawa, S., Ueda, M., Miyata, N., Hirota, T. and Ahiko, K. 1982. Identification and fermentation character of Kefir yeast. *Agri. Biol. Chem.* 46: 2631-2636.
- Jyothi, N. A., Sasikiran, K., Nambisan, B. and Balagopalan, C. 2005. Optimization of glutamic acid production from cassava starch factory residues using *Brevibacterium divaricatum*. *Process Biochem.* 40: 3576-3579.
- John, P. R., Nampoothiri, M. K. and Pandey, A. 2006. Solid-state fermentation for L-lactic acid production from agro waste using *Lactobacillus delbrueckii*. *Process Biochem.* 41: 759-763.
- Kobayama, S., Osada, K., Tachibana, H., Katakura, Y. and Shirahrta, S. 1997. Enhancing effects of food components on the production of interferon β from animal cells suppressed by stress homones. *Cytotechnology.* 23: 119-125.
- La Riviere, J. W.M. 1963. Studies on the kifir grain. *J Gen. Microbiol.* 31:V.
- Laws, A., Gu, Y. and Marshall, V. 2001. Biosynthesis, characterisation, and design of bacterial exopolysaccharide from lactic acid bacteria. *Biotechnol. Advances.* 19: 597-625
- Linko Y.-Y. and P. Javanainen. 1996 . Simultaneous liquefaction, saccharification, and lactic acid fermentation on barley starch. *Enz. Microb. Technol.* 19: 118-123.
- Maaruf, A.G., Che Man, Y.B., Asbi, B.A., Junainah, A.H. and Kennedy, J.F. 2001. Effect of water content on the gelatinization temperature of sago starch. *Carbohydrate Polym.* 46: 331-337.

- Madiedo, P.R., Hugenholtz, J. and Zoon, P. 2002. An overview of the functionality of exopolysaccharide produced by lactic acid bacteria. *Int. Dairy J.* 12: 163-171.
- Maeda, H., Zhu, X., Omura, K., Suzuki, S. and Kitamura, S. 2004. Effects of exopolysaccharide (kefiran) on lipids, blood pressure, blood glucose, and constipation (Online). Available : [http://iospress.metapress.com/app/home/contribution.html\[2005,May,24\]](http://iospress.metapress.com/app/home/contribution.html[2005,May,24])
- Marshall, V., M. Cole, W., M. and Brooker, B. E. 1984. Observations on the structure of kefir grains and the distribution of the micrflora. *J. Appl. Bacteriol.* 59: 491-497.
- Micheli, L., Uccelletti, D., Palleschi, C. and Crescenzi, V. 1999. Isolation and characterisation of aropy *Lactobacillus* strain producing the exopolysaccharide kefiran. *Appl. Microbiol Biotechnol.* 53: 69-74.
- Mitsue, T. and Fujio, Y. 1998. Effective production of kefiran by a mixed culture of *Lactobacillus kefiranofaciens* and *Torulaspora delbrueckii*, and properties of chemically designed kefiran. *Japanese J. Food Chem.* 5(2): 191-196 (in Japanese)
- Mitsue, T., Tachibana, K. and Fujio, Y. (1991) Efficient kefiran production by a mixed culture of *Lactobacillus kefiranofaciens* KF-75 and yeast strains. *Seibutsukougakudaishi* 77: 90-103 (in Japanese)
- Mitsue, T., Tachibana, K., Hara, T. and Fujio, Y. (1998) Isolation of kefiran-producing lactic acid bacteria from kefir grain and improvement of kefiran productivity. *Seibutsukougakukaishi* 76: 447-450 (in Japanese)
- Mojovic, L., Nikolic, S., Maja, M. R. and Vukasinovic, M. 2006. Production of bioethanol from corn meal hydrolyzates. *Fuel.* 85(12-13): 1750-1755.
- Mohamad, R., Ariff, A., Hassan, M. A., Karim, M. I. A., Shimizu, H. and Shioya, S. 2002. Importance of carbon source feeding and pH control strategies for maximum kojic acid production from sago starch by *Aspergillus flavus*. *J. Biosci. Bioeng.* 94: 99-105.
- Mozzi, F., de Giori, G.S., Oliver, G. and de Valdez, G.F. 1996. Exopolysaccharide production by *Lactobacillus casei* under controlled pH. *Biotechnol. Lett.* 18(4): 435-439.
- Narayanan, N., Roychoudhury, K.P. and Srivastara, A. 2004. L(+) lactic acid fermentation and its product polymerization. *J. Biotechnol.* 7(2): 167-179.
- Nelson, N. 1994. A photometric adaptation of the Somogyi method for the determination of glucose. *J. Biol. Chem.* 153: 375-380.

- Nigam, P. and Singh, D. 1995. Enzyme and microbial systems involved in starch processing. *Enzyme Microb. Technol.* 17: 770-778.
- Ohkouchi, Y. and Inoue, Y. 2006. Direct production of L(+)-lactic acid from starch and food waste using *Lactobacillus manihotivorans* LMG 18011. *Biores. Technol.* 97(13): 1554-1562.
- Rodrigues, K. L., Caputo, L. G., Carvalho, J. T., Evangelista, J. and Schneedorf, J. M. 2004. Antimicrobial and healing activity of kefir and kefiran extract. In J. Antimicrobial Agents. 25 : 404-408.
- Roy, S., Gudi, R. D., Venkatesh, K.V. and Shah, S. S. 2001. Optimal control strategies for simultaneous saccharification and fermentation of starch. *Process Biochem.* 36: 713-722.
- Roy, I. and Gupta, M. N. 2004. Hydrolysis of starch by mixture of glucoamylase and pullulanase entrapped individually in calcium alginate beads. *Enzyme Microb. Technol.* 34: 26-32.
- Saha C. B. 2006. Production of mannitol from inulin by simultaneous enzymatic saccharification and fermentation with *Lactobacillus intermedius* NRRL B-3693. *Enzyme Microb. Technol.* 39: 991-995.
- Saloff-Coste, C. J. 2005. Kefir grain (Online). Available :
<http://www.torontoadvisor.com/Kefir/article1.htm>. [2005, May, 24]
- Santos, A., Mauro, M. S., Sanchez, A., Torres, J. M. and Marquina, D. 2003. The antimicrobial properties of different strains of *Lactobacillus* spp. isolation from kefir. *System. Appl. Microbiol.* 26: 434-437.
- Shiomi, M., Sasaki, K., Murofushi, M. and Aibara, K. 1982. Antitumor activity in mice of orally administered polysaccharide from kefir grain. *Japan. J. Med. Sci. Biol.* 35: 75-80.
- Solichien, B. 1995. Sago starch as a substrate for cyclodextrin production. (Online). Available :
http://www.actahrt.org/books/389/389_12.htm. [2004, September, 14]
- Soni, S. K., Kaur, A. and Gupta, J. K. 2003. A solid state fermentation based bacterial α -amylase and fungal glucoamylase system and its suitability for the hydrolysis of wheat starch. *Process Biochem.* 39: 185-192.
- Suraini, A. A. 2002. Sago starch and its utilization. *J. Biosci. Bioeng.* 94: 526-529.
- Tallon, R., Bressollier, P. and Urdaci, M.C. 2003. Isolation and characterization of two exopolysaccharide produced by *Lactobacillus plantarum* EP56. *Res. Microbiol.* 154: 705-712.

- Tanaka, T., Hoshima, M., Tanabe, S., Sakai, K., Ohtsubo, S. and Tanigushi, M. 2006. Production of D-lactic acid from defatted rice bran by simultaneous saccharification and fermentation. *Biores. Technol.* 97: 211-217.
- Van, D. B., D, J. C., Robijn, G. W., Janssen, A. C., Giuseppin, M. L.F., Vreeker, R., Kamerling, J. D., Vliegenthart, J.F.G., Leedeboer, A. M. and Verrips, C. T. 1995. Production of novel extracellular polysaccharide by *Lactobacillus sake* O-1 and characterization of the polysaccharide. *Appl. Environ. Microbiol.* 61: 2840-2844.
- Vancanneyt, M., Mengaud, J., Cleenwerck, I., Vanhonacker, K., Hoste, B., Dawyndt, P., Degivry, M. C., Ringuet, D., Janssens, D. and Swings, J. 2004. Reclassification of *Lactobacillus kefirgranum* Takizawa *et al.* 1994 as *Lactobacillus kefiranofaciens* subsp. *kefirgranum* subsp. nov. and emended description of *L. kefiranofaciens* Fujisawa *et al.* 1988. *Int. J. Syst. Evol. Microbiol.* 54: 551-556.
- Vuyst, L.D. and Degesset, B. 1999. Heteropolysaccharides from lactic acid bacteria. *Microbiol. Rev.* 23: 153-177.
- Vuyst, L.D., Vin, F.D., Vanngelgem, F. and Degeest, B. 2001. Recent developments in the biosynthesis and applications of heteropolysaccharides from lactic acid bacteria. *Int. Dairy J.* 11: 687-707.
- Welman, A.D. and Maddox, I.S. 2003. Exopolysaccharides from lactic acid bacteria: perspectives and challenges. *Trends. Biotechnol.* 24(6): 269-274.
- Welman, A.D., Maddox, I. and Archer, R. 2003. Exopolysaccharide and extracellular metabolite production by *Lactobacillus delbrueckii* subsp. *Bulgaricus*, growth on lactose in continuous culture. *Biotechnol. Lett.* 25: 1515-1520.
- Wikipedia Trademark. 2006. Sago Mine disaster. (Online). Available : <http://en.wikipedia.org/wiki/Sago>. [6, December, 2006]
- Yetti, M., Nazamid, S., Zaition, H., Son, R. and Jamilah, B. 2000. Purification and characterization of sago starch-degrading glucoamylase from *Acremonium* sp. Endophytic fungus. *Food Chem.* 71: 221-227.
- Yokoi, H. and Watanabe, T. 1992. Optimum culture conditions for production of kefiran by *Lactobacillus* sp. KPB-167B isolated from kefir grains. *J. Ferment. Bioeng.* 74: 327-329.

- Yokoi, H., Watanabe, T. and Fujio, Y. 1990. Isolation and characterization of polysaccharide-producing bacteria from kefir grains. J. Dairy Sci. 73: 1684-1689.
- Yokota, A., Amachi, S., Ishii, S. and Tomita, F. 1995. Acid sensitivity of a mutant of *Lactobacillus lactis* subsp.*lactis* C2 with reduced membrane bound ATPase activity. Biosci. Biotech. Biochem. 59: 2004-2007.
- Yumoto, I. and Ikeda, K. 1995. Direct fermentation of starch to L(+)-lactic acid using *Lactobacillus amylophilus*. Biotechnol. Lett. 17: 543-546.
- Zhu, S., Wu, Y., Yu, Z., Zhang, X., Wang, C., Yu, F., Jin, S., Zhao, Y., Tu, S. and Xue, Y. 2005. Simultaneous saccharification and fermentation of microwave/alkali pre-treated rice straw to ethanol. Biosys. Eng. 92(2): 229-235.