

เอกสารอ้างอิง

สุริย์รัตน์ เงินดวง. 2545. การศึกษาแบคทีเรียกรดแลคติกที่ผลิตแบคเทอรีโอซินจากอาหารหมัก.

วิทยานิพนธ์ปริญญาโทบัณฑิต สาขาจุลชีววิทยา บัณฑิตวิทยาลัย
มหาวิทยาลัยเกษตรศาสตร์.

Adams, M.R. 1999. Safety of industrial lactic acid bacteria. **Journal of Biotechnology** 68: 171-178.

Allgaier, H., Jung, G., Werner, R.G., Schneider, U. and Zahner, H. 1986. Epidermin: sequencing of a heterodet tetracyclic 21-peptide amide antibiotic. **European Journal of Biochemistry** 160: 9-22.

Altena, K., Guder, A., Cramer, C. and Bierbaum, G. 2000. Biosynthesis of the lantibiotic mersacidin: organization of a type B lantibiotic gene cluster. **Applied and Environmental Microbiology** 66: 2565-2571.

Anderson, D.G. and McKay, L.L. 1983. Simple and rapid method for isolating large plasmid DNA from lactic Streptococci. **Applied and Environmental Microbiology** 46: 549-552.

Anderssen, E.L., Diep, D.B., Nes, I.F., Eijsink, V.G.H. and Nissen-Meijer, J. 1998. Antagonistic activity of *Lactobacillus plantarum* C11: 2 new 2-peptide bacteriocins, plantaricin EF and JK, and the induction factor plantaricin A. **Applied and Environmental Microbiology** 6: 2269-2272.

Axelsson L.T., Chung, T.C., Dobrogosz, W.J. and Lindgren, S. 1989. Production of a broad spectrum antimicrobial substance by *Lactobacillus reuteri*. **Microbial Ecology** 2: 131-136.

Axelsson, L.T. 1998. Lactic acid bacteria: classification and physiology. In: **Lactic Acid Bacteria: Microbiology and Functional Aspects**. Salminen, S. and von Wright, A. (Eds.), pp. 1-72. Marcel Dekker, Inc., New York.

- Aymerich, T., Holo, H., Havarstein, L.S., Hugas, M., Garriga, M. and Nes, I.F. 1996. Biochemical and genetic characterization of enterocin A from *Enterococcus faecium*, a new antilisterial bacteriocin in the pediocin family of bacteriocins. **Applied and Environmental Microbiology** 62: 1676-1682.
- Baird-Parker, A.C. 1980. Organic acid. In: **Microbial Ecology of Foods**. Siliker, J.H., Elliott, R.P., Baird-Parker, A.C., Bryan, F.L., Christian, J.H.B., Clark, D.S., Olson, J.C. and Roberts, T.R. (Eds.), Vol. 1, pp. 126-135. Academic Press, New York.
- Barefoot, S.F. and Klaenhammer, T.R. 1984. Purification and characterization of the *Lactobacillus acidophilus* bacteriocin lactacin B. **Antimicrobial Agents and Chemotherapy** 26: 328-334.
- Bhunia, A.K., Johnson, M.C. and Ray, B. 1988. Purification, characterization and antimicrobial spectrum of a bacteriocin produce by *Pediococcus acidilactici*. **Applied and Environmental Microbiology** 65: 261-268.
- Bruno, M.E., Kaisen, A. and Montville, T.J. 1992. Depretion of proton motive force by nisin in *Listeria monocytogenes* cell. **Applied and Environmental Microbiology** 58: 2255-2259.
- Buchman, G.W., Banerjee, S. and Hansen, J.N. 1988. Structure, expression and evolution of a gene encoding the precursor of nisin, a small protein antibiotic. **Journal of Biological Chemistry** 263: 16260-16266.
- Casla, D., Requena, T. and Gomez, R. 1996. Antimicrobial activity of lactic acid bacteria isolated from goat's milk and artisanal cheeses: characteristics of a bacteriocin produce by *Lactobacillus curvatus* IFLP 105. **Journal of Applied Bacteriology** 81: 35-41.
- Chen, H. and Hoover, D.G. 2003. Bacteriocins and their food applications. **Comprehensive Reviews in Food Science and Food Safty** 2: 82-99.
- Cintas, L.M., Casaus, P., Holo, H., Hernandez, P.E., Nes, I.F. and Havarstein, L.S. 1998. Enterocins L50A and L50B, two novel bacteriocins from *Enterococcus faecium* L50, are related to Staphylococcal hemolysins. **Journal of Bacteriology** 180: 1988-1994.
- Cords, B.R., McKay, L.L. and Gerry, P. 1974. Extracchromosomal elements in group N Streptococci. **Journal of Bacteriology** 117: 1149-1152.

- Collins, E.B. and Aramaki, K. 1980. Production of hydrogen peroxide by *Lactobacillus acidophilus*. **Journal of Dairy Science** 63: 353-357.
- Condom, S. 1987. Responses of lactic acid bacteria to oxygen. **FEMS Microbiology Reviews** 46: 269-280.
- Daba, H., Pandian, S., Gosselin, J.F., Simard, R.E., Huang, J. and Lacroix, C. 1991. Detection and activity of a bacteriocin produced by *Leuconostoc mesenteroides*. **Applied and Environmental Microbiology** 5: 3450-3455.
- Daeschel, M.A. and Klaenhammer T.R. 1985. Association of a 13.6 megadalton plasmid in *Pediococcus pentosaceus* with bacteriocin activity. **Applied and Environmental Microbiology** 50: 1538-1545.
- Daeschel, M.A., Mckenney, M.C. and McDonal, L.C. 1990. Bactericidal activity of *Lactobacillus plantarum* C-11. **Food Microbiology** 7: 91-98.
- Dahiya, R.S. and Speck, M.L. 1968. Hydrogen peroxide formation by Lactobacilli and its effect on *Staphylococcus aureus*. **Journal of Dairy Science** 51: 1568-1572.
- Daly, C., Sandine, W.E. and Elliker, P.R. 1972. Interaction of food starter cultures and food borne pathogens: *Streptococcus diacetylactis* versus food pathogens. **Journal of Milk and Food Technology** 35: 349-357.
- Davey, G.P. and Richardson, B.C. 1981. Purification and some properties of diplococcin from *Streptococcus cremoris* 346. **Applied and Environmental Microbiology** 41: 84-89.
- Dellaglio, F., Dicks, L.M.T. and Torriani, S. 1995. The genus *Leuconostoc*. In: **The Genera of Lactic Acid Bacteria**. Wood, B.J.B. and Holzapfel, W.H. (Eds.), Vol. 2, pp. 235-278. Blackie Academic and Professional, London.
- Devriese, L.A. and Pot, B. 1995. The genus *Enterococcus*, In: **The Genera of Lactic Acid Bacteria**. Wood, B.J.B. and Holzapfel, W.H. (Eds.), Vol. 2, pp. 327-367. Blackie Academic and Professional, London.
- De Vuyst, L. and Vandamme, E.J. 1994. Antimicrobial potential of lactic acid bacteria. In: **Bacteriocins of Lactic Acid Bacteria: Microbiology, Genetics and Applications**. De Vuyst, L. and Vandamme, E.J. (Eds.), pp. 91-142. Blackie Academic and Professional, London.

- Duan, K., Dunn, N.W. and Kim, W.S. 1999. Rapid plasmid DNA isolation from *Lactococcus lactis* using overnight culture. **Biotechnology Techniques** 13: 519-521.
- Elegado, F.B, Kim, W.J. and Kwon, D.Y. 1997. Rapid purification, partial characterization, and antibacterial spectrum of the bacteriocin, pediocin AcM, from *Pediococcus acidilactici* M. **International Journal of Food Microbiology** 37: 1-11.
- Farias, M.E., Holgado-Ruiz, A.A. and Sesma, F. 1994. Bacteriocin production by lactic acid bacteria isolated from regional cheese: inhibition of foodborne pathogens. **Journal of Food Protection** 57: 1013-1015.
- Franz, C.M.A.P., Du Toit, M., Olasupo, N.A., Schillinger, U. and Holzapfel, W.H. 1998. Plantaricin D, a bacteriocin produced by *Lactobacillus plantarum* from read-to-eat salad. **Letters in Applied Microbiology** 26: 231-235.
- Florian, B., Ruiz-Barba, J.L. and Jimenez-Diaz, R. 1998. Purification and genetic characterization of enterocin I from *Enterococcus faecium* 6T1a, a novel antilisterial plasmid encoded bacteriocin which does not belong to the pediocin family of bacteriocins. **Applied and Environmental Microbiology** 64: 4883-4890.
- Geis, A., Singh, J. and Teuber, M. 1983. Potential of lactic streptococci to produce bacteriocin. **Applied and Environmental Microbiology** 45: 205-211.
- Goepfert, J.M. and Hicks, R. 1969. Effect of volatile fatty acids on *Salmonella typhimurium*. **Journal of Bacteriology** 97: 956-958.
- Gonzalez, B., Area, P., Mayo, B. and Suarez, J.E. 1994. Detection, purification and partial characterization of plantaricin C, a bacteriocin produced by a *Lactobacillus plantarum* strain of dairy origin. **Applied and Environmental Microbiology** 60: 2158-2163.
- Green, G., Dicks, L.M.T., Bruggeman, G., Vandamme, E.J. and Chikindas, M.L. 1997. Peddiocin PD-1, a bactericidal antimicrobial peptide from *Pediococcus damnosus* NCFB 1832. **Journal of Applied Microbiology** 83 : 127-132.

- Hammes, W.P., Weiss, N. and Holzapfel, W.P. 1991. The genera *Lactobacillus* and *Carnobacterium*. In: **The Prokaryotes. A Handbook on the Biology of Bacteria: Ecophysiology, Isolation, Identification, Application.** Balows, A., Trüper, H.G., Dworkin, M., Harder, W. and Schleifer, K.H. (Eds.), pp. 1535-1594. Springer, New York.
- Hardie, J.M. and Whiley, R.A. 1995. The genus of *Streptococcus*, In: **The Genera of Lactic Acid Bacteria.** Wood, B.J.B. and Holzapfel, W.H. (Eds.), Vol. 2, pp. 55-124. Blackie Academic and Professional, London.
- Hastings, J.W., Sailer, M., Johnson, K., Roy, K.L., Vederas, J.C. and Stiles, M.E. 1991. Characterization of leucocin A-UAL 187 and cloning of bacteriocin gene from *Leuconostoc gelidum*. **Journal of Bacteriology** 173: 7491-7500.
- Hechard, Y., Derijard, B., Letellier, F. and Cenatiempo, Y. 1992. Characterization and purification of mesentericin Y105, an anti-*Listeria* bacteriocin from *Leuconostoc mesenteroides*. **The Journal of General Microbiology** 138: 2725-2731.
- Henderson, J.T., Chopko, A.L. and van Wassenaar, P.D. 1992. Purification and primary structure of pediocin PA-1 produced by *Pediococcus acidilactici* strain PAC-1.0. **Archives of Biochemistry and Biophysics** 295: 5-12.
- Holo, H., Nilssen, O. and Nes, J.F. 1991. Lactococcin A, a new bacteriocin from *Lactobacillus lactis* subsp. *cremoris*: isolation and characterization of the protein and its gene. **Journal of Bacteriology** 173: 3879-3887.
- Hurst, A. 1981. Nisin. **Advances in Applied Microbiology** 27: 85-123.
- Hurst, A. and Hoover, D.G. 1993. Nisin. In: **Antimicrobial in Food.** Davidson, P.M. and Brannen, A.L. (Eds.), pp. 369-395. Academic Press, New York.
- Hyronimus, B., Le Marrec, C. and Urdaci, M.C. 1998. Coagulin, a bacteriocin-like inhibitory substance produced by *Bacillus coagulans* I4. **Journal of Applied Microbiology** 85: 42-50.
- Itoh, T., Fujimoto, Y., Kawai, Y., Toba, T. and Saito, T. 1995. Inhibition of foodborne pathogenic bacteria by bacteriocin from *Lactobacillus gasseri*. **Letters in Applied Microbiology** 21: 137-141.

- Jack, R.W., Tagg, J.R. and Ray, B. 1995. Bacteriocin of gram positive bacteria. **Microbiological Reviews** 59: 171-200.
- Jay, J.M. 1982. Antimicrobial properties of diacetyl. **Applied and Environmental Microbiology** 44: 525-532.
- Joerger, M.C. and Klaenhammer, T.R. 1986. Characterization and purification of helveticin J and evidence for a chromosomally determined bacteriocin produced by *Lactobacillus helveticus* 481. **Journal of Bacteriology** 167: 439-446.
- Kaletta, C., Entian, K.D. and Jung, G. 1991. Prepeptide sequence of cinnamycin (Ro 09-0198): the first structural gene of a duramycin-type lantibiotic. **European Journal of Biochemistry** 199: 411-415.
- Kao, C.T. and Frazier, W.C. 1966. Effect of lactic acid bacteria on growth of *Staphylococcus aureus*. **Applied Microbiology** 14: 251-255.
- Kelly, W.J., Asmundson, R.V. and Huang, C.M. 1996. Characterization of plantaricin KW 30, a bacteriocin produced by *Lactobacillus plantarum*. **Journal of Applied Bacteriology** 81: 657-662.
- Klaenhammer, T.R., McKay, L.L. and Baldwin, K.A. 1978. Improved lysis of group N Streptococci for isolation and rapid characterization of plasmid deoxyribonucleic acid. **Applied and Environmental Microbiology** 36: 592-600.
- Klaenhammer, T.R. 1993. Genetic of bacteriocins produced by lactic acid bacteria. **FEMS Microbiology Reviews** 12: 39-86.
- Klushrestha, D.C. and Martin, E.H. 1974. Inhibition of bacteria by some volatile and non volatile compounds associated with milk. I. *Escherichia coli*. **Journal of Milk and Food Technology** 37: 510-516.
- Kozak, W., Bardowski, J. and Dobrzanski, W.T. 1978. Lactostrepcin-acid bacteriocins produced by lactic streptococci . **Journal of Dairy Research** 45: 247-257.
- Leer, R.J., van der Vossen, J.M.B.M., van Giezen, M., van Noort, J.M. and Pouwels, P.H. 1995. Genetic analysis of acidocin B, a novel bacteriocin produced by *Lactobacillus acidophilus*. **Microbiology** 141: 1629-1635.

- Mortvedt, C.I., Nissen-Meyer, J., Stetten, K. and Nes, I.F. 1991. Purification and amino acid sequence of lactocin S, a bacteriocin produced by *Lactobacillus sake* L45. **Applied and Environmental Microbiology** 57: 1829-1834.
- Muriana, P.M. and Kleanhammer, T.R. 1991. Purification and partial characterization of lactacin F, a bacteriocin produced by *Lactobacillus acidophilus* 11088. **Applied and Environmental Microbiology** 57: 114-121.
- Nes, I.F. and Holo, H. 2000. Class II antimicrobial peptides from lactic acid bacteria. **Biopolymers** 55: 50-61.
- Nettle, C.G. and Barefoot, S.F. 1993. Biochemical and genetic characteristics of bacteriocin of food-associated lactic acid bacteria. **Journal of Food Protection** 56: 338-356.
- Oh, S., Kim, S.H. and Worobo, R.W. 2000. Characterization and purification of a bacteriocin produced by a potential probiotic culture, *Lactobacillus acidophilus* 30SC. **Journal of Dairy Science** 83: 2747-2752.
- Osmanagaoglu, O., Gunduz, U., Beyatli, Y. and Cokmus, C. 1998. Purification and characterization of a pediocin F, A bacteriocin produced by *Pediococcus acidilactici* F. **Journal of Biology** 22: 217-228.
- O'Sullivan D.J. and Klaenhammer T.R. 1993. Rapid mini-prep isolation of high-quality plasmid DNA from *Lactococcus* and *Lactobacillus* spp. **Applied and Environmental Microbiology** 59: 2730-2733.
- Parente, E. and Hill, C. 1992. Characterization of *Enterococcus faecium* inhibitory to *Listeria monocytogenes*. **Journal of Food Protection** 55: 497-502.
- Piard, J.C., Muriana, P.M., Deamazeaud, M.J. and Klaenhammer, T.R. 1992. Purification and partial characterization of lactacin 481, a lanthionine-containing bacteriocin produced by *Lactococcus lactis* subsp. *lactis* CNRZ481. **Applied and Environmental Microbiology** 58: 279-284.
- Price, R.J. and Lee, J.S. 1970. Inhibition of *Pseudomonas* species by hydrogen peroxide producing Lactobacilli. **Journal of Milk and Food Technology** 33: 13-18.
- Pugsley, A.P. and Oudega, B. 1987. Methods for studying colicins and their plasmids. In: **Plasmids**. Hardy, M.S. (Eds.), pp. 105-111. IRL Press, Oxford.

- Rattanachaikunsopon, P. and Phumkhachorn, P. 1998. A simple method for detecting bacteriocin production: swab-paper disc. **The Journal of Science Khon Kaen University** 26: 281-288.
- Res, M., Eschbach-Bludau, M., Iglesias-Wind, M.I., Kupke, T. and Sahl, H.G. 1994. Producer immunity towards the lantibiotic pep5: identification of the immunity gene *pep1* and localization and functional analysis of its gene product. **Applied and Environmental Microbiology** 60: 2876-2883.
- Ruiz-Barba, J.L., Piard, J.C. and Jimenez-Diaz, R. 1991. Plasmid profile and curing of plasmid in *Lactobacillus plantarum* strain isolated from green olive fermentations. **Journal of Applied Bacteriology** 71: 417-421.
- Salminen, S., Isolauri, E. and Salminen, E. 1996. Clinical uses of probiotics for stabilising gut mucosal barrier: successful strains and future challenges. **Antonie Van Leeuwenhoek** 70: 347-358.
- Schillinger, U. and Lucke, F.K. 1989. Antimicrobial activity of *Lactobacillus sake* isolated from meat. **Applied and Environmental Microbiology** 55: 1901-1906.
- Schillinger, U. and Holzapfel, W.H. 1995. The genus *Carnobacterium*. In: **Genera of Lactic Acid Bacteria**. pp. 307-326. Chapman and Hall, Glasgow.
- Semih, O., Ozlem, C. and Eren, A. 2003. Probiotic and health. **Asian Pacific Journal of Cancer Preview** 4: 369-372.
- Simpson, W.J. and Taguchi, H. 1995. The genus *Pediococcus*, with notes on the genera *Tetragenococcus* and *Aerococcus*, In: **The Genera of Lactic Acid Bacteria**. Wood, B.J.B. and Holzapfel, W.H. (Eds.), pp. 125-172. Chapman and Hall, London.
- Spelhaug, S.R. and Harlander, S.A. 1989. Inhibition of food borne bacteria pathogens by bacteriocins from *Lactococcus lactis* and *Pediococcus pentosaceus*. **Journal of food protection** 52: 856-862.
- Stiles, M.E. and Holzapfel, W.H. 1997. Lactic acid bacteria of foods and their current taxonomy. **International Journal of Food Microbiology** 36: 1-29.

- Stoffels, G., Nes, I.F. and Gudmundsdottir, A. 1992. Isolation and properties of a bacteriocin-producing *Carnobacterium piscicola* isolated from fish. **Journal of Applied Bacteriology** 73: 309-316.
- Tahara, T. and Kanatani, K. 1996. Isolation, partial characterization and mode of action of acidocin J 1229, a bacteriocin produced by *Lactobacillus acidophilus* JCM 1229. **Journal of Applied Bacteriology** 81: 669-677.
- Teuber, M. 1995. The genus *Lactococcus*, In: **The Genera of Lactic Acid Bacteria**. Wood, B.J.B. and Holzapfel, W.H. (Eds.), pp. 173-234. Blackie Academic and Professional, London.
- Thomas, E.L. 1985. Bacterial hydrogen peroxide production. In: **The Lactoperoxidase System**. Pruitt, K.M. and Tenovo, J. (Eds.), pp. 179-202. Marcel Dekker Inc., New York.
- Tichaczek, P.S., Meyer, N.J., Nes, I.F., Vogel, R.F. and Hammes, W.P. 1992. Characterization of the bacteriocins curvacin A from *Lactobacillus curvatus* LTH 1174 and sakacin P from *Lactobacillus sake* LTH673. **Systematic and applied microbiology** 15: 460-468.
- Tittsler, R.P., Pederson, C.S., Snell, E.E., Hendlin, D. and Niven, C.F. 1952. Symposium on the lactic acid bacteria. **Bacteriological Reviews** 16: 227-260.
- Upreti, G.C. and Hinsdill, R.D. 1975. Production and mode of action of lactocin 27: bacteriocin from a homofermentative *Lactobacillus*. **Antimicrobial Agents and Chemotherapy** 7: 139-145.
- van Belkum, M.J., Hayema, B.J., Jeeninga, R.E., Kok, J. and Venema, G. 1991. Organization and nucleotide sequences of two lactococcal bacteriocin operons. **Applied and Environmental Microbiology** 57: 492-498.
- van Laack, R.L.J.M., Schillinger, U. and Holzapfel, W.H. 1992. Characterization and partial purification of a bacteriocin produced by *Leuconostoc carnosum* LA44A. **International Journal of Food Microbiology** 16: 183-195.
- Vaughan, E.E., Daly, C. and Fitzgerald, G.F. 1992. Identification and Characterization of helveticin V-1829, a bacteriocin produced by *Lactobacillus helveticus* 1829 **Journal of Applied Bacteriology** 73: 299-308.

- Vescovo, M., Morelli, L. and Botazzi, V. 1982. Drug resistance plasmids in *Lactobacillus acidophilus* and *Lactobacillus reuteri*. **Applied and Environmental Microbiology** 43: 50-56.
- West, C.A. and Warner, P.J. 1988. Plantacin B, a bacteriocin produced by *Lactobacillus plantarum* NCDO 1193. **FEMS Microbiology Letters** 49: 163-165.
- Worobo, R.W., Henkel, T., Sailer, M., Roy, K.L., Vederas, J.C. and Stiles, M.E. 1994. Characteristics and genetic determinant of a hydrophobic peptide bacteriocin, carnobacteriocin A, produced by *Carnobacterium piscicola* LV 17A. **Microbiology** 140: 517-526.
- Woodruff, W.A., Novak, J. and Caufield, P.W. 1998. Sequence analysis of mutA and mutM gene involved in the biosynthesis of the lantibiotic mutacin II in *Streptococcus mutans*. **Gene** 206: 37-43.
- Yang, R., Johnson, M.C. and Ray, B. 1992. Novel method to extract large amounts of bacteriocins from lactic acid bacteria. **Applied and Environmental Microbiology** 58: 3355-3359.
- Yildirim, Z., and Johnson, M.G. 1998. Detection and characterization of a bacteriocin produced by *Lactococcus lactis* subsp. *cremoris* R isolated from radish. **Letters in Applied Microbiology** 26: 297-304.
- Zajdei, J.K. and Ceglowski, P. 1985. Mechanism action of lactostrepcin 5, a bacteriocin produced by *Streptococcus cremoris* 202. **Applied and Environmental Microbiology** 49: 969-974.