

CHAPTER 7: REFERENCES

- Abee, T. & Wouters, J.A. 1999. Microbial stress response in minimal processing. *International Journal of Food Microbiology* 50 (1–2), 65–91.
- Abraham, G., Debray, E., Candau, Y. & Piar, G. 1990. Mathematical model of thermal destruction of *Bacillus stearothermophilus* spores. *Applied Environmental Microbiology* 56 (10), 3073–3080.
- Andersson, A., Rönner, U. & Granum, P.E. 1995. What problems does the food industry have with the spore-forming pathogens *Bacillus cereus* and *Clostridium perfringens*? *International Journal of Food Microbiology* 28, 145–155.
- Andrews, J.M. 2004. BSAC standardized disc susceptibility testing method (version 3). *Journal of Antimicrobial Chemotherapy* 53, 713–28.
- Andrews, J.M. 2005. BSAC Working Party on Susceptibility Testing, BSAC standardized disc susceptibility testing method (version 4). *Journal of Antimicrobial Chemotherapy* 56 (1), 60–76.
- Ayele, W.Y., Svastova, P., Roubal, P., Bartos, M. & Pavlik, I. 2005. *Mycobacterium avium* subspecies *paratuberculosis* cultured from locally and commercially pasteurised cow's milk in the Czech Republic. *Journal of Applied and Environmental Microbiology* 71 (3), 1210–1214.
- Bansal, B. & Chen, X.D. 2006. A critical review of milk fouling in heat exchangers. *Comprehensive Reviews in Food Science and Food Safety* 5 (2), 27–33.
- Banykó, J. & Vyletělová, M. 2008. Determining the source of *Bacillus cereus* and *Bacillus licheniformis* isolated from raw milk, pasteurised milk and yoghurt. *Letters in Applied Microbiology* 48 (3), 318–323.

- Bapat, P., Nandy, S.K., Wangikar, P. & Venkatesh, K.V. 2006. Quantification of metabolically active biomass using Methylene Blue dye Reduction Test (MBRT): Measurement of cfu in about 200s. *Journal of Microbiological Methods* 65(1), 107–116.
- Barbano, D.M., Ma, Y. & Santos, M.V. 2006. Influence of raw milk quality on fluid milk shelf life. *Journal of Dairy Science* 89 (E Suppl.), E15–E19.
- Barrett, N.J. 1986. Communicable disease associated with milk and dairy products in England and Wales: 1983–1984. *The Journal of Infection* 12 (3), 265–72.
- Beaman, T.C., Pankratz, H.S. & Gerhardt, P. 1988. Heat shock affects permeability and resistance of *Bacillus stearothermophilus* spores. *Journal of Applied Environmental Microbiology* 54, 2515–2520.
- Belotti, V., Barros, M.F., Nero, L.A., Pachemshy, J.A., de Santana, E.H.W., Bernadette, D.G.M. & Franco, B.D.G.M. 2002. Quality of pasteurised milk influences the performance of ready-to-use systems for enumeration of aerobic microorganisms. *International Dairy Journal* 12 (5), 413–418.
- Beuchat, L.R., Copeland, F., Curiale, M. S., Danisavich, T., Gangar, V., King, B.W., Lawlis, T.W., Likin, R.O., Okwusoa, J., Smith, C.F. & Townsend, D.E. 1998. Comparison of the SimPlate™ total plate count method with Petrifilm, Redigel and conventional pour plate methods for enumerating aerobic microorganisms in foods. *Journal of Food Protection* 61, 14–18.
- Birlouez-Aragon, I., Sabat, P. & Gouti, N. 2002. A new method for discriminating milk heat treatment. *International Dairy Journal* 12 (1), 59–67.
- Bradford, M.M. 1976. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. *Analytical Biochemistry* 72, 248–254.

Brown, K.L., 2000. Control of bacterial spores, *British Medical Bulletin* 56 (1), 158–171.

Burgess, K., Heggum, C., Walker, S. & Van Schothorst, M. 1994. *Bulletin of the IDF* 292, 12–19.

Buyser, M.L.D., Dufour, B., Maire, M. & Lafarge, V. 2001. Implication of milk and milk products in food-borne diseases in France and in different industrialised countries. *International Journal of Food Microbiology* 67 (1–2), 1–17.

Byrne, R.D. & Bishop, J.R. 2001. Control of microorganisms in the dairy processing: Dairy product safety systems. In: Marth, E.H. & Steele, J.L. (eds), *Applied Dairy Microbiology*. New York: Marcel Dekker.

Christiansson, A., Naidu, A.S., Nilsson, I., Wadstrom, T. & Pettersson E.H. 1989. Toxin production by *Bacillus cereus* dairy isolates in milk at low temperatures. *Journal of Applied and Environmental Microbiology* 55 (10), 2595–2600.

Claeys, W.L., Ludikhuyze, L.R. & Hendrickx, M.E. 2001. Formation kinetics of hydroxymethylfurfural, lactulose and furosine in milk heated under isothermal and non-isothermal conditions. *Journal of Dairy Research* 68, 287–301.

Codex Committee on Milk and Milk Products, joint FAO/WHO food standards programme codex committee on milk and milk products. Fourth Session Wellington, New Zealand, 28 February–3 March 2000. Accessed at <http://www.fao.org/docrep/meeting/005/x4888e/x4888e00.htm> on 8 April 2010.

Coetzee, K. & Maree, D. 2009. Lactodata-statistics: A Milk South Africa publication compiled by the Milk Producers' Organisation. *Lactodata*, 12 (1), 1–7. Accessed at, <http://www.dairyconnect.co.za/dairyMail/lactodata.pdf>, on 19 February 2010.

Coleman, W.H., Chen, D., Li, Y.Q., Cowan, A.E. & Setlow, P. 2007. How moist heat kills spores of *Bacillus subtilis*. *Journal of Bacteriology* 189, 8458–8466

Condon, S., Bayarte, M. & Sala, F.J., 1992. Influence of the sporulation temperature upon the heat resistance of *Bacillus subtilis*. *Journal of Applied Bacteriology* 73 (3), 251–256.

Council Directive 85/397/EEC, 1985 Health and animal health problems affecting intra-community trade in heat-treated milk. *Official Journal of the European Community* No. L226:13–29 of 24.08.1985.

Cousin, C.M. & Bramley, A.J. 1981. The microbiological quality of raw milk. In: *Dairy Microbiology Volume 1*. Robinson, R.K. (ed.) London: Applied Science Publisher.

Crielly, E.M., Logan, N.A. & Anderton, A. 1994. Studies on the *Bacillus* flora of milk and milk products. *Journal of Applied Bacteriology* 77, 256–263.

Datta, N. & Deeth, H.C. 2001. Age gelation of UHT milk: A review. *Food and Bioproducts Processing* 79 (4), 197–210.

Elliott, A.J., Datta, N., Amenu, B. & Deeth, H.C. 2005. Heat-induced and other chemical changes in commercial UHT milks. *Journal of Dairy Research* 72, 442–446.

Eneroöth, Å., Christiansson, A., Brendehaug, J. & Molin, G. 1998. Critical contamination sites in the production line of pasteurised milk, with reference to the psychrotrophic spoilage flora. *International Dairy Journal* 8, 829–834.

Enright, E., Bland, A.P., Needs, E.C. & Kelly A.L. 1999. Proteolysis and physicochemical changes in milk on storage as affected by UHT treatment, plasmin activity and KIO₃ addition. *International Dairy Journal* 9 (9), 581–591.

Etoa, F.X. & Michiels, L. 1988. Heat-induced resistance of *Bacillus stearothermophilus* spores. *Letters in Applied Microbiology* 6 (3), 43–45.

Feeherry, F.E., Munsey, D.T. & Rowley, D. B. 1987. Thermal inactivation and injury of *Bacillus stearothermophilus* spores. *Journal of Applied and Environmental Microbiology* 53, 365–370.

Flint, S., Walker, K., Waters, B. & Crawford R. 2007. Description and validation of a rapid (1h) flow cytometry test for enumerating thermophilic bacteria in milk powders. *Journal of Applied Microbiology* 102 (4), 909–915.

Franciosa, G., Pourshaban, M., Gianfranceschi, M., Gattuso, A., Fenicia, L., Ferrini, A.M., Mannoni, V., De Luca, G. & Aureli, P. 1999. *Clostridium botulinum* spores and toxin in mascarpone cheese and other milk products. *Journal of Food Protection* 62 (8), 867–871.

Francis, A.J., Nimmo, G.R. Efstratiou, A. Galanis, V. & Nuttall, N. 1993. Investigation of milk-borne *Streptococcus zooepidemicus* infection associated with glomerulonephritis in Australia. *Journal of Infection* 27 (3), 317–23.

García, M.C., Rodríguez, M.J., Bernardo, A., Tornadijo, M.E. & Carballo, J. 2002. Study of enterococci and micrococci isolated throughout manufacture and ripening of San Simón cheese. *Journal of Food Microbiology* 19 (1), 23–33.

García-Cayuela, T., Tabasco, R., Peláez, C. & Requena, T. 2009. Simultaneous detection and enumeration of viable lactic acid bacteria and bifidobacteria in fermented milk by using propidium monoazide and real-time PCR. *International Dairy Journal* 19 (6–7), 405–409.

Gillespie, B.E., Jayarao, B.M. & Oliver S.P. 1997. Identification of *Streptococcus* species by randomly amplified polymorphic deoxyribonucleic acid fingerprinting. *Journal of Dairy Science* 80 (3), 471–476.

Gonzalez, I., Lopez, M., Mazas, M., Gonzalez, J. & Bernardo, A. 1995. The effect of recovery conditions on the apparent heat resistance of *Bacillus cereus* spores. *Journal of Applied Microbiology* 78 (5), 548–554.

Granum, P.E. & Lund, T. 1997. *Bacillus cereus* and its food poisoning toxins. *FEMS Microbiology Letters* 157 (2), 223–228.

Griffin, P.M. & Tauxe, R.V. 1991. The epidemiology of infections caused by *Escherichia coli* O157:H7, other enterohemorrhagic *E. coli*, and the associated hemolytic uremic syndrome. *Epidemiologic Reviews* 13, 60–98.

Grijspoor, K., Mortier, L., Block, J.D & Van Renterghem, R. 2004. Applications of modelling to optimise ultra high temperature milk heat exchangers with respect to fouling. *Journal of Food Control* 15 (2), 117–130.

Guillaume-Gentile, O., Scheldeman, P., Marugg, J., Herman, L., Joosten, H. & Heyndrickx, M. 2002. Genetic heterogeneity in *Bacillus sporothermodurans* as demonstrated by ribotyping and repetitive extragenic palindromic-PCR fingerprinting. *Journal of Applied and Environmental Microbiology* 68 (9), 4216–4224.

Gunasekera, T.S., Attfield, P.V. & Veal, D.A. 2000. A flow cytometry method for rapid detection and enumeration of total bacteria in milk. *Journal of Applied and Environmental Microbiology* 66 (3), 1228–1232.

Hamdy, M.E.R. & Amin, A.S. 2002. Detection of *Brucella* species in the milk of infected cattle, sheep, goats and camels by PCR. *The Veterinary Journal* 163 (3), 299–305.

Hammer, P., Lembke, F., Suhren, D. & Heeschen, W. 1995. Characterisation of heat resistant mesophilic *Bacillus* species affecting quality of UHT milk: A preliminary report. *Kieler Milchwirtschaftliche Forschungsberichte* 47 (4), 303–311.

- Hathout, Y., Setlow, B., Cabrera-Martinez, R.M., Fenselau, C. & Setlow P. 2003. Small acid-soluble proteins as biomarkers in mass spectrometry analysis of *Bacillus* spores. *Journal of Applied and Environmental Microbiology* 69, 1100–1107.
- Hayes, M.C. & Boor, K. 2001. Raw milk and fluid milk product products. In Marth, E.H. & Steele J.L. (eds), *Applied Dairy Microbiology*. New York: Marcel Dekker.
- Hayes, M.C., Feeley, J.C., Graves, L.M., Ajello, G.W & Fleming, D.W., 1986. Isolation of *Listeria monocytogenes* from milk. *Journal of Applied and Environmental Microbiology* 51, 438-440.
- Henriques, A.O. & Moran, C.P. Jr. 2007. Structure, assembly, and function of the spore surface layers. *Annual Review of Microbiology* 61, 555–588.
- Herman, L. & Heyndrickx, M. 2000. The presence of intragenetically located REP-like elements in *Bacillus sporothermodurans* is sufficient for REP-PCR typing. *Research in Microbiology* 151 (4), 255–261.
- Herman, L., Vaerewijck, M., Moermans, R. & Waes, G. 1997. Identification and detection of *Bacillus sporothermodurans* spores in 1, 10 and 100 millilitres of raw milk by PCR. *Applied and Environmental Microbiology* 63 (8), 139–3143.
- Hill, C., Cotter, P.D., Sleator, R.D. & Gahan, C.G.M. 2002. Bacterial stress response in *Listeria monocytogenes*: jumping the hurdles imposed by minimal processing. *International Dairy Journal* 12, 273–283.
- Huck, J.R., Sonnen, M. & Boor, K.J. 2008. Tracking heat-resistant, cold-thriving fluid milk spoilage bacteria from farm to packaged product. *Journal of Dairy Science* 91 (3), 1218–1228.

Huemer, I.A., Klijn N., Vogelsang, H.W.J. & Langeveld, L.P.M. 1998. Thermal death kinetics of spores of *Bacillus sporothermodurans* isolated from UHT milk. *International Dairy Journal* 8, 851–855.

Jayarao, B.M., Donaldson, S.C., Straley, B.A., Sawant, A.A., Hegde, N.V. & Brown, J.L. 2006. A survey of foodborne pathogens in bulk tank milk and raw milk consumption among farm families in Pennsylvania. *Journal of Dairy Science* 89, 2451–2458.

Jayarao, B.M. & Henning, D.R., 2001. Prevalence of foodborne pathogens in bulk tank milk. *Journal of Dairy Science*, 81, 2157-2162.

Juneja, V.K., Snyder, Jr. O.P. & Marmer, B.S., 1997. Thermal destruction of *Escherichia coli* 0157:H7 in beef and chicken: determination of D and Z-values. *International Journal of Food Microbiology* 35930, 231–237.

Kazwala, R.R., Daborn, C.J., Kusiluka, L.J.M., Jiwa, S.F.H., Sharp, J.M. & Kambarage, D.M. 1998. Isolation of *Mycobacterium* species from raw milk of pastoral cattle of the Southern Highlands of Tanzania. *Tropical Animal Health and Production* 30 (4), 1573–7438.

Kessler, H.G., 1981. *Food Engineering and Dairy Technology*. Verlag A. Kessler, Freising, Germany.

Khadre, M.A. & Yousef, A.E. 2001. Sporicidal action of ozone and hydrogen peroxide: a comparative study. *International Journal of Food Microbiology* 71 (2–3), 131–138.

Kim, S.G., Kim, E.H., Lafferty, C.J. & Dubovi, E. 2005. *Coxiella burnetii* in bulk tank milk samples, United States. *Emerging Infectious Diseases* 11 (4), 619–21.

Klijn, N., Herman, L., Langeveld, L., Vaerewijck, M., Wagendorp, A.A., Huemer, I. & Weerkamp, A. 1997. Genotypical and phenotypical characterisation of *Bacillus sporothermodurans* strains surviving UHT sterilization. *International Dairy Journal* 7, 421–428.

Knott, A.G., Russell, A.D. & Dancer, B.N. 1995. Development of resistance to biocides during sporulation of *Bacillus subtilis*. *Journal of Applied Bacteriology* 79 (5), 492–498.

Kuwana, R., Kasahara, Y., Fujibayashi, M., Takamatsu, H., Ogasawara, N. & Watabe, K. 2002. Proteomics characterization of novel spore proteins of *Bacillus subtilis*. *Microbiology* 148, 3971–3982.

Lafarge, V., Ogier, J.C., Girard, V., Maladen, V., Leveau, J.Y., Gruss, A. & Delacroix-Buchet, A. 2004. Raw cow milk bacterial population shifts attributable to refrigeration. *Journal of Applied and Environmental Microbiology* 70 (9), 5644–5650.

Leedom, J.M. 2006. Milk of non-human origin and infectious diseases in humans. *Clinical Infectious Diseases* 43, 610–615.

Leguérinel, I., Couvert, O. & Mafart, P. 2007. Modelling the influence of the sporulation temperature upon the bacterial spore heat resistance, application to heating process calculation. *International Journal of Food Microbiology* 114 (1), 100–104.

Lewis, M. & Heppel, N. 2000. *Continuous thermal processes*. USA: Aspen.

Lewis, M.J. 1986. Advances in heat treatment of milk. In: *Modern Dairy Technology Volume 1*. Robinson R.K. (ed.). London: Applied Science Publisher.

Mafart, P., Couvert, O., Gaillard, S. & Lequerinel, I. 2002. On calculating sterility in thermal preservation methods: application of the Weibull frequency distribution model. *International Journal of Food Miocrobiology* 72(1-2), 107-113.

Mallidis, G. & Scholefield, J. 1985. The release of dipicolinic acid during heating and its relation to the heat destruction of *Bacillus stearothermophilus* spores. *Journal of Applied Bacteriology* 59, 479–486.

Manzano, S., Ordoez, J.A., De La Hoz, L. & Fernandez, M. 2005. A rapid method for the estimation of the microbiological quality of refrigerated raw milk based on the aminopeptidase activity of Gram-negative bacteria. *International Dairy Journal* 15 (1), 79–84.

Melly, E., Genest, P.C., Gilmore, M.E., Little, S., Popham, D.L., Driks, A. & Setlow, P. 2002. Analysis of the properties of spores of *Bacillus subtilis* prepared at different temperatures. *Journal of Applied Microbiology* 92, 1105–1115.

Montanari, G., Borsari, A., Chiavari, C., Ferri, G., Zambonelli, C. & Grazia, L. 2004. Morphological and phenotypical characterization of *Bacillus sporothermodurans*. *Journal of Applied Microbiology* 97 (4), 802–809.

Moran, L., Rowe, M.T. & Gilmour, A. 1991. Evaluation of a direct epifluorescent filter technique (DEFT) for the enumeration of bacterial spores in raw milk. *International Dairy Journal* 1 (4), 253–261.

Movahedi, S. & Waites, W. 2002. Cold shock response in sporulating *Bacillus subtilis* and its effect on spore heat resistance. *Journal of Bacteriology* 184 (19), 5275–5281.

Muir, D.D. 2007. The shelf life of dairy products: Raw milk and fresh products. *International Journal of Dairy Technology* 49 (2), 44–48.

- Nicholson, W.L., Munakata, N., Horneck, G., Melosh, H.J. & Setlow, P. 2000. Resistance of *Bacillus* endospores to extreme terrestrial and extra-terrestrial environments. *Microbiology and Molecular Biology Reviews* 64 (3), 548–572.
- Nocker, A., Cheung, C.Y. & Camper, A.K. 2006. Comparison of propidium monoazide with ethidium monoazide for differentiation of live vs. dead bacteria by selective removal of DNA from dead cells. *Journal of Microbiology Methods* 67 (2), 310–320.
- Paidhungat, M., Setlow, B., Driks, A. & Setlow, P. 2000. Characterization of spores of *Bacillus subtilis* which lack dipicolinic acid. *Journal of Bacteriology* 182, 5505–5512.
- Pettersson, B., Lembke, F., Hammer, P., Stackebrandt, E. & Priest, F.G. 1996. *Bacillus sporothermodurans*, a new species producing highly heat-resistant endospores. *International Journal of Systemic Bacteriology* 46, 759–764.
- Pirttijärvi, T.S.M., Andersson, M.A. & Salkinoja-Salonen, M.S. 2000. Properties of *Bacillus cereus* and other bacilli contaminating biomaterial-based industrial processes. *International Journal of Food Microbiology* 60 (2–3), 231–239.
- Rai, A.K., Chakravorty, R. & Paul, J. 2008. Detection of *Giardia*, *Entamoeba* & *Cryptosporidium* in unprocessed food items from northern India. *World Journal of Microbiology and Biotechnology* 24 (12), 2879–2887.
- Regulations relating to milk and dairy products. 1997. South African Government Notice No. R. 1555 of 21 November 1997. The Minister of Health in terms of section 15(1) of the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act No. 54 of 1972). Accessed on 5 March 2010 at <http://www.doh.gov.za/docs/regulations/foodstuff/milk-dairy.pdf>
- Roux, K.H. 1995. Optimization and troubleshooting in PCR. *PCR Methods and Applications* 4 (5), 85–94.

Ruecket, A., Ronimus, R.S & Morgan, H.W. 2005. Rapid differentiation and enumeration of total, viable vegetative cell and spore content of thermophilic bacilli in milk powder with reference to *Anoxybacillus flavithermus*. *Journal of Applied Microbiology* 99(5), 1246–1255.

Rysstad, G. & Kolstad, J. 2006. Extended shelf life of milk: Advances in technology. *International Journal of Dairy Technology* 59 (2), 85–96.

Salkinoja-Salonen, M.S., Vuorio, R., Andersson, M.A., Kämpfer, P., Andersson, M.C., Honkanen-Buzalski, T. & Scoging, A.C. 1999. Toxigenic strains of *Bacillus licheniformis* related to food poisoning. *Journal of Applied and Environmental Microbiology* 65, 4637–4645.

Samaras, F.I., Kehagias, C., Arkoudelos, J.S. & Bocaris, M.I. 2003. Investigation on ropiness development by isolates of the genera *Lactobacillus*, *Alcaligenes* and Feta cheese starter cultures. *Journal of Food Microbiology* 20 (5), 503–509.

Sandrou, D.K. & Arvanitoyannis, I.S. 2000. Implementation of hazard analysis critical control point (HACCP) to the dairy industry: current status and perspectives. *Food Reviews International* 16 (1), 77–111.

Scheldeman, P., Goossens, K., Rodríguez-Díaz, M., Pil, A., Goris, J., Herman, L., De Vos, P., Logan, N.A. & Heyndrickx, M. 2004. *Paenibacillus lactis* sp. nov., isolated from raw and heat-treated milk. *International Journal of Systemic and Evolutionary Microbiology* 54, 885–891.

Scheldeman, P., Herman L., Foster, S.M. & Heyndrickx, M. 2006. *Bacillus sporothermodurans* and other highly heat-resistant spore formers in milk. *Journal of Applied Microbiology* 101 (3), 542–555.

Scheldeman, P., Herman, L., Goris, J., De Vos, P. & Heyndrickx, M. 2002. Polymerase chain reaction identification of *Bacillus sporothermodurans* from dairy sources. *Journal of Applied Microbiology* 92 (5), 983–991.

Scheldeman, P., Pil, A., Herman, L., De Vos, P. & Heyndrickx, M. 2005. Incidence and diversity of potentially highly heat-resistant spores isolated at dairy farms. *Journal of Applied and Environmental Microbiology* 71 (3), 1480–1494.

Setlow, P. 2000. Resistance of bacterial spores. In: Storz, G., Hengge-Aronis, R. (eds). *Bacterial Stress Responses*. Washington DC: American Society of Microbiology.

Setlow, P. 2006. Spores of *Bacillus subtilis*: Their resistance to and killing by radiation, heat and chemicals. *Journal of Applied Microbiology* 101, 514–525.

Siragusa, G.R. & Cutter, C.N. 1995. Microbial ATP bioluminescence as a means to detect contamination on artificially contaminated beef carcass tissue. *Journal of Food Protection* 58 (7), 764–769.

Slaghuis, B.A., Te Giffel, M.C., Beumer, R.R. & André, G. 1997. Effect of pasturing on the incidence of *Bacillus cereus* spores in raw milk. *International Dairy Journal* 7 (4), 201–205.

Speck, M.L. & Busta, F.F. 1968. Sterilization and aseptic packaging of milk products-microbiological trend. *Journal of Dairy Science* 1 (7), 1146–1151.

Sørhaug, T. & Stepaniak, L. 1997. Psychrotrophs and their enzymes in milk and dairy products: Quality aspects. *Trends in Food Science and Technology* 8 (2), 35–41.

Svensson, B., Eneroth, Å., Brendehaug, J., Molin, G. & Christiansson, C. 2000. Involvement of a pasteuriser in the contamination of milk by *Bacillus cereus* in a commercial dairy plant. *Journal of Dairy Research* 67 (3), 455–460.

Swartzel, K.R. 2007. The role of heat exchanger fouling in the formation of sediment in aseptically processed and packaged milk. *Journal of Food Processing and Preservation* 7(4), 247–257.

- Takeno, S., Ohnishi, J., Komatsu, T., Masaki, T., Sen, K. & Ikeda, M. 2007. Anaerobic growth and potential for amino acid production by nitrate respiration in *Corynebacterium glutamicum*. *Applied Microbiology and Biotechnology* 75, 1173–1182.
- Te Giffel, M.C., Wagendorp, A., Herrewegh, A. & Driehuis, F. 2002. Bacterial spores in silage and raw milk. *Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology* 81 (1-4), 625-630.
- Teofila, C.B., Pankratz, H.S. & Gerhardt, P. 1998. Heat shock affects permeability and resistance of *Bacillus stearothermophilus* Spores. *Journal of Applied and Environmental Microbiology* 54 (10), 2515–2520.
- Tetra Pak Dairy Index: A biannual news and information source about the dairy industry. Issue 1-June 2009. Accessed on 19 February 2010 at http://www.tetrapak.com/Document%20Bank/Food_categories/Tetra_Pak_Dairy_Index_2009_1.pdf.
- Toledo, R.T., Escher, F.E. & Ayres J.C. 1973. Sporicidal properties of hydrogen peroxide against food spoilage organisms, *Journal of Applied Microbiology* 26 (4), 592–597.
- Tomasula, P.M., Kozempel, M.F., Konstance, R.P., Gregg, D., Boettcher, S., Baxt, B. & Rodríguez , L.L. 2007. Thermal inactivation of foot-and-mouth disease virus in milk using high-temperature, short time pasteurisation. *Journal of Dairy Science* 90, 3202–3211.
- Topçu, A., Numanoğlu, E. & Saldamli, I. 2006. Proteolysis and storage stability of UHT milk produced in Turkey. *International Dairy Journal* 16 (6), 633–638.

Vaerwijck, M.J.M., De Vos, P., Lebbe, L., Scheldeman, P., Hoste, B. & Heyndrickx, M. 2001. Occurrence of *Bacillus sporothermodurans* and other aerobic spore-forming species in feed concentrate for dairy cattle. *Journal of Applied Microbiology*, 91 (6), 1074–1084.

Vail, J.H., Morgan, R., Merino, C.R., Gonzales, F., Miller, R. & Ram, J.L. 2003. Enumeration of waterborne *Escherichia coli* with Petrifilm plates. *Journal of Environmental Quality* 32 (1), 368–373.

Van Boekel, M.A.J.S. 1998. Effect of heating on Maillard reactions in milk. *Food Chemistry* 62 (4), 403–414.

Van der Merwe, C.F. & Coetze, J. 1992. Quetol 651 for general use: A revised formulation. *Electronic Microscopy Society of Southern Africa* 22, 31–32.

Van Schaik, W. & Abbe, T. 2005. The role of σB in the stress response of Gram-positive bacteria – targets for food preservation and safety. *Current Opinion in Biotechnology* 16 (2), 218 – 224.

Varga, A. & James, D. 2005. Real-time RT-PCR and SYBR Green I melting curve analysis for the identification of *Plum poxvirus* strains C, EA, and W: Effect of amplicon size, melt rate, and dye translocation. *Journal of Virological Methods* 132 (1-2), 146–153.

Warth, A.D. 1979. Liquid chromatographic determination of dipicolinic acid from bacterial spores. *Journal of Applied and Environmental Microbiology* 38, 1029–1033.

Warth, A.D. 1980. Heat stability of *Bacillus cereus* enzymes within spores and in extracts. *Journal of Bacteriology* 143, 27–34.

Wouters, J.T.M., Ayad, E.H.E., Hugenholtz, J. & Smit, G. 2002. Microbes from raw milk for fermented dairy products. *International Dairy Journal* 12(3), 91–109.

Yazdankhah, S.P., Sørum, H., Larsen, H.J.S. & Gogstad, G. 2001. Rapid method for detection of gram-positive and -negative bacteria in milk from cows with moderate or severe clinical mastitis. *Journal of Clinical Microbiology* 39, 3228–3233.

Yoo, J.A., Hardin, M.T. & Chen, X.D. 2006. The influence of milk composition on the growth of *Bacillus stearothermophilus*. *Journal of Food Engineering* 77(1), 96–102.