

## DAFTAR PUSTAKA

- Ahmed, M. M., El-Rasoul, S. A., Auda, S. H. & Ibrahim, M. A. 2013. Emulsification/Internal gelation as a method for preparation of diclofenac sodium-sodium alginate microparticles. *Saudi Pharmaceutical Journal*. 21(1): 61-69.
- Anilkumar, G., Niraj, V., Khare, A. R., Sobel, R. 2014. *Microencapsulation in the Food Industry: A Practical Implementation Guide*. San Diego: Elsevier. pp. 3-19.
- Aslam, M., Shahid, M. Rehman, F. U, Naveed, N. H., Batool, A. I., Sharif, S. & Asia, A. 2011. Purification and characterization of bacteriocin isolated from *Streptococcus thermophilus*. *African Journal of Microbiology Research*, 5: 2642-2648.
- Baird, R. M., Hodges, N. A. & Denyer, S. P. 2003. *Handbook of Microbiological Quality Control*. Boca Raton: CRC Press. pp 176-178.
- Boh, B. 2007. *Developments et Applications Industrielles des Microcapsules*. In: Vandamme. Paris: Lavoisier. pp 9-12.
- Chandan, R. C. & Kilara, A. 2013. *Manufacturing Yogurt and Fermented Milks: Second Edition*. Chichester: John Wiley & Sons.
- Chandan, R. C., White, C. H., Kilara, A. & Hui, Y. H. 2006. *Manufacturing Yogurt and Fermented Milks*. Victoria: Blackwell Publishing Area. pp 89.
- Chavvari, M., Maranon, I. & Villaran, M. C. 2012. Encapsulation Technology to Protect Bacteria. *InTech Open*. 23(10).
- Chun, H., Kim, C. H. & Cho, Y. H. 2014. Microencapsulation of *Lactobacillus plantarum* DKL 109 using external ionic gelation method. *Korean Journal for Food Science of Animal Resource*. 34(5): 692-699.
- Colom, J., Saravia, M. C., Otero, J., Soriano, J. A., Corters, P., Maspoch, D. & Llagostera, M. 2017. Microencapsulation with alginate/CaCO<sub>3</sub>: A strategy for improved phage therapy. *Nature Research Journal*. 7: 41447.
- Cummings, A., Hess, D., Patel, B. & Zhang, H. 2002. *Cheese and Yogurt*. Retrieved from University at Buffalo: [www.eng.buffalo.edu/Courses/c\\_e457527/ce457pro/CheeseandYogurt.doc](http://www.eng.buffalo.edu/Courses/c_e457527/ce457pro/CheeseandYogurt.doc) (25 April 2018).
- Dianawati, D., Mishra, V. & Shah, N. P. 2016. Survival of microencapsulated probiotic bacteria after processing and during storage: A review. *Critical Reviews in Food Science and Nutrition*. 26;56(10):1685-716.

- Etchepare, M. A., Barin, J. S., Lopes, E. J., Wagner, R., Fries, L. L. M. & Menezes, C. R. 2015. Microencapsulation of probiotics using sodium alginate. *Ciencia Rural*. 45(7):103-8478.
- Fernandes, R. 2008. *Microbial Handbook Dairy Products*. Cambridge: Leatherhead Publishing. pp 77.
- Fijan, S. 2014. Microorganism with claimed probiotic properties: An overview of recent literature. *International Journal of Environmental Research and Public Health*. 11:4745-4767.
- Friend, B. A. & Shahani, K. M. 1985. Fermented dairy products. In: The Practice of Biotechnology Current Commodity Products. New York: Pergamon Press.
- Goh, C. H., Heng, P. W. S. & Chan, L. W. 2012. Alginates as a useful natural polymer for microencapsulation and therapeutic applications. *Carbohydrate Polymers*. 88(1):1-12.
- Guarner, F., Perdigon, B., Corthier, G., Salminen, S., Koletzko, B. & Morelli, L. 2005. Should yogurt cultures be considered probiotics?. *British Journal of Nutrition*. 93: 783-786.
- Heidebach, T., Petra, F. & Ulrich, K. 2010. Influence of casein-based microencapsulation on freeze-drying and storage of probiotic cells. *Journal of Food Engineering*. 98: 309-316.
- Holkem, A. T., Raddatz, G. C., Nunes, G. L., Chichoski, A. J., Lopes, E. J., Grossso, C. R. F. & Menezes, C. R. 2016. Development and characterization of alginate microcapsules containing *Bifidobacterium* BB-12 produced by emulsification/internal gelation followed by freeze drying. *Food Science and Technology*. 71:302-308.
- Jay, J. M., Loessner, M. J. & Golden, D. A. 2006. *Modern Food Microbiology*. New York: Springer Science & Business Media. pp 161.
- Kailasapathy, K. 1996. Polysaccharide ingredients in dairy product applications: Increase in cheese yield. *Food Australia*. 48: 458-461.
- Kalia, V. C., Shouche, Y., Purohit, H. J. & Rahi, P. 2017. *Mining of Microbial Wealth and Metagenomics*. Singapore: Springer Nature Singapore. pp. 279.
- Lamoureux, L., Roy, D. & Gauthier, S. F. 2002. Production of oligosaccharides in yogurt containing bifidobacteria and yogurt cultures. *Journal of Dairy Science*. 85(5): 1058 – 69.
- Lee, K. Y. & Mooney, D. J. 2012. Alginate: Properties and biomedical science. *Progress in Polymer Science*. 37(1): 106–126.
- Lee, K. Y. & Salminen S. 2009. *Handbook of Probiotics and Prebiotics*. New Jersey: Wiley & Sons. pp 38-50.
- Lee, M., Jang, J., Lee, J., Park, H., Choi, H. & Kim, T. 2015. Starter cultures for kimchi fermentation. *Journal of Microbiology and Biotechnology*. 25(5): 559-568.

- McKillup, S. 2006. *Statistics Explained: An Introductory Guide for Life Scientists*. Cambridge: Cambridge University Press. pp 55-60.
- Nunes, I. L. & Mercadante, A. Z. 2007. Encapsulation of lycopene using spray-drying and molecular inclusion processes. *Brazilian Archives of Biology and Technology*. 50:5.
- Patil, P., Chavanke, D. & Wagh, M. 2012. A review on ionotropic gelation method: novel approach for controlled gastroretentive gelispheres. *International Journal of Pharmacy and Pharmaceutical Sciences*. 4(4): 0975 – 1491.
- Paul, C. 2006. *Use of Cryoprotectants, Prebiotics, and Microencapsulation of Bacterial Cells in Improving the Viability of Probiotic Organism in Freeze Dried Yoghurt*. Retrieved from Victoria University: <http://vuir.vu.edu.au/580/> (8 Oktober 2017).
- Rastall, R. A. 2009. *Prebiotics and Probiotics Science and Technology*. New York: Springer. pp 805-826.
- Rowe, R. C. 2009. *Handbook of Pharmaceutical Excipients*. 6th edition. 2009 London: Pharmaceutical Press. pp 1064.
- Taskia, S. 2017. *Starter Culture in Food Production*. Chichester: John Wiley & Sons (Speranza, B., Bevilacqua, A. & Corbo, M. R.). pp 80-82.
- Sanguansari, L. & Augustin, M. A. 2010. *Functional Food Product Development*. New Delhi: Wiley-Blackwell (Smith, J. & Charter, E.). pp. 6-11.
- Simione, F. P. 1998. *Cryopreservation Manual*. Retrieved from Vanderbilt University: <https://www.vanderbilt.edu/viibre/CryoPreservationManual.pdf> (25 April 2018).
- Tsevdos, N. 2017. *Yogurt*. Retrieved from Colorado Integrated Food Safety Center of Excellence: <http://fsi.colostate.edu/yogurt/> (8 Oktober 2017).
- University of California Davis. 2014. *Colony Forming Units/Dilution Plating*. Retrieved from University of California Davis: [http://wineserver.ucdavis.edu/industry/enology/methods\\_and\\_techniques/techniques/colony\\_forming\\_units.html](http://wineserver.ucdavis.edu/industry/enology/methods_and_techniques/techniques/colony_forming_units.html) (8 Oktober 2017).
- Vos, P., Bucko, M., Gemeneir, P., Navratil, M., Svitel, J., Faas, M., Strand, B. L., Braek, G. S., Morch, Y. A., Virkatovska, A., Lacik, I., Kollarikova, G., Orive, G., Poncelet, D., Pedraz, J. L. & Schumacher, M. B. A. 2009. Multiscale requirements for bioencapsulation in medicine and biotechnology. *Biomaterials*. 30(13):2559-70.
- Vrese, M. & Schrezenmer, J. 2008. *Pro-, Pre-, and Synbiotics and Health*. Kiel: Max Rubner Institute. pp. 6.
- Watheley, T. L., 1996. *Microencapsulation of Drugs*. Switzerland: Hardwood Academics. pp 52.
- Watson, R. R. & Preedy, V. R. 2015. *Probiotics, Prebiotics, and Synbiotics*. London: Elsevier. pp 305-307.

- Wolkers, W. F. 2015. *Cryopreservation and Freeze-Drying Protocols*. Hatfield: Humana Press. pp 477-488.
- World Health Organization. 2002. *Guidelines for the Evaluation of Probiotics in Food*. Retrieved from World Health Organization: [http://www.who.int/foodsafety/fs\\_management/en/probiotic\\_guidelines.pdf](http://www.who.int/foodsafety/fs_management/en/probiotic_guidelines.pdf) (8 Oktober 2017).
- Xu, M., Borque, F. G., Dumont, M. J. & Jabaji, S. 2016. Encapsulation of *Lactobacillus casei* ATCC 393 cells and evaluation of their survival after freeze-drying, storage and under gastrointestinal conditions. *Journal of Food Engineering*. 168:52-59.
- Yeo, Y. & Park, K. 2003. Control of encapsulation efficiency and initial burst in polymeric microparticle systems. *Archives of Pharmacal Research*. 27(1): 1-12.
- Zanjani, M. A. K., Tarzi, B. G., Sharifan, A. & Mohammadi, N. 2014. Microencapsulation of probiotics by calcium alginate-gelatinized starch with chitosan coating and evaluation of survival in simulated huma gastro-intestinal condition. *Iran Journal of Pharmaceutical Research*. 13(3): 843-852.

