

## REFERENCES

- Abbasiliasi, S., Tan, J. S., Bashokouh, F., Ibrahim, T. A. T., Mustafa, S., Vakhshiteh, F., ... & Ariff, A. B. (2017). In vitro assessment of *Pediococcus acidilactici* Kp10 for its potential use in the food industry. *BMC microbiology*, *17*(1), 1-11.
- Anastasiadou, S., Papagianni, M., Ambrosiadis, I., & Koidis, P. (2008). Rapid quantifiable assessment of nutritional parameters influencing pediocin production by *Pediococcus acidilactici* NRRL B5627. *Bioresource technology*, *99*(14), 6646-6650.
- Barros, R. F., Cutrim, C. S., Costa, M. P. D., Conte, C. A., & Cortez, M. A. S. (2019). Lactose hydrolysis and organic acids production in yogurt prepared with different onset temperatures of enzymatic action and fermentation. *Ciência Animal Brasileira*, *20*.
- Bédard, F., Hammami, R., Zirah, S., Rebuffat, S., Fliss, I., & Biron, E. (2018). Synthesis, antimicrobial activity and conformational analysis of the class IIa bacteriocin pediocin PA-1 and analogs thereof. *Scientific reports*, *8*(1), 1-13.
- Beux, S., Pereira, E. A., Cassandro, M., Nogueira, A., & Waszczynskyj, N. (2017). Milk coagulation properties and methods of detection. *Ciência Rural*, *47*.
- Chen, C., Zhao, S., Hao, G., Yu, H., Tian, H., & Zhao, G. (2017). Role of lactic acid bacteria on the yogurt flavour: A review. *International Journal of Food Properties*, *20*(sup1), S316-S330.
- Cheng, H. (2010). Volatile flavor compounds in yogurt: a review. *Critical reviews in food science and nutrition*, *50*(10), 938-950.
- Chilton, S. N., Burton, J. P., & Reid, G. (2015). Inclusion of fermented foods in food guides around the world. *Nutrients*, *7*(1), 390-404.
- Choi, Y. J., Jin, H. Y., Yang, H. S., Lee, S. C., & Huh, C. K. (2016). Quality and storage characteristics of yogurt containing *Lacobacillus sakei* ALI033 and cinnamon ethanol extract. *Journal of animal science and technology*, *58*(1), 1-7.
- Crow & Curry. (2011). *Pediococcus* spp. in Fuquay, J. W., McSweeney, P. L., & Fox, P. F. *Encyclopedia of dairy sciences*. Academic Press.
- Cuamatzin-García, L., Rodríguez-Rugarcía, P., El-Kassis, E. G., Galicia, G., Meza-Jiménez, M. D. L., Baños-Lara, M. D. R., ... & Pérez-Armendáriz, B. (2022). Traditional Fermented Foods and Beverages from around the World and Their Health Benefits. *Microorganisms*, *10*(6), 1151.
- Dahlan, H. A., & Sani, N. A. (2017). The interaction effect of mixing starter cultures on homemade natural yogurt's pH and viscosity. *International Journal of Food Studies*, *6*(2).
- Danyluk, M. D., Parish, M. E., Goodrich-Schneider, R. M., & Worobo, R. W. (2012). Microbial decontamination of juices. In *Microbial decontamination in the food industry* (pp. 163-189). Woodhead Publishing.
- Dimidi, E., Cox, S. R., Rossi, M., & Whelan, K. (2019). Fermented foods: definitions and characteristics, impact on the gut microbiota and effects on gastrointestinal health and disease. *Nutrients*, *11*(8), 1806.
- Doelle, H. (1975). *Bacterial Metabolism (2nd ed.)*. Academic Press.
- Domagała, J. (2012). Instrumental texture, syneresis, and microstructure of yoghurts prepared from ultrafiltrated goat milk: Effect of degree of concentration. *International Journal of Food Properties*, *15*(3), 558-568.

- Durso, L., & Hutkins, P. (2003). Starter Culture in Caballero, B., Trugo, L. C., & Finglas, P. M. (2003). *Encyclopedia of food sciences and nutrition*. Academic.
- El Bouchikhi, S., Pagès, P., El Alaoui, Y., Ibrahim, A., & Bensouda, Y. (2019). Syneresis investigations of lacto-fermented sodium caseinate in a mixed model system. *BMC biotechnology*, *19*, 1-10.
- FAO. (2023). "Gateway to Dairy Production and Products". Retrieved 21st February, 2023, from <https://www.fao.org/dairy-production-products/production/dairy-animals/en/>
- Fisberg, M., & Machado, R. (2015). History of yogurt and current patterns of consumption. *Nutrition reviews*, *73*(suppl\_1), 4-7.
- Florence, A. C., de Oliveira, M. N., Delile, A., & Béal, C. (2021). Fermented Milk Manufacture Conditions Affect *Bifidobacterium animalis subsp. lactis* BB12 Survival as a Result of Membrane Fatty Acid Composition. *EC microbiology*, *17*(6), 1-16.
- Gálvez, A., Grande Burgos, M. J., Lucas López, R., Pérez Pulido, R., Gálvez, A., López, R. L., ... & Burgos, M. J. G. (2014). Application of lactic acid bacteria and their bacteriocins for food biopreservation. *Food biopreservation*, 15-22.
- García-Burgos, M., Moreno-Fernández, J., Alférez, M. J., Díaz-Castro, J., & López-Aliaga, I. (2020). New perspectives in fermented dairy products and their health relevance. *Journal of Functional Foods*, *72*, 104059.
- Gil-Rodríguez, A. M., & Beresford, T. (2021). Bile salt hydrolase and lipase inhibitory activity in reconstituted skim milk fermented with lactic acid bacteria. *Journal of Functional Foods*, *77*, 104342.
- Gómez, B. G., Odériz, M. L. V., Ferreiro, N. M., Rodríguez, M. Á. R., & Vázquez, M. (2020). Effect of the milk heat treatment on properties of low-fat yogurt manufactured with microbial transglutaminase. *Emirates Journal of Food and Agriculture*, 739-749.
- Gupta, M. K., Torrico, D. D., Ong, L., Gras, S. L., Dunshea, F. R., & Cottrell, J. J. (2022). Plant and dairy-based yogurts: a comparison of consumer sensory acceptability linked to textural analysis. *Foods*, *11*(3), 463.
- Hansen, E. B. (2014). Starter Cultures: Uses in the Food Industry. In *Encyclopedia of Food Microbiology* (pp. 529-534). Elsevier.
- Hati, S., Mandal, S., & Prajapati, J. B. (2013). Novel starters for value added fermented dairy products. *Current Research in Nutrition and Food Science Journal*, *1*(1), 83-91.
- Herdian, H., Istiqomah, L., Damayanti, E., Suryani, A. E., Anggraeni, A. S., Rosyada, N., & Susilowati, A. (2018). Isolation of cellulolytic lactic-acid bacteria from Mentok (*Anas moschata*) gastro-intestinal tract. *Tropical Animal Science Journal*, *41*(3), 200-206.
- Hols, P., Hancy, F., Fontaine, L., Grossiord, B., Prozzi, D., Leblond-Bourget, N., ... & Kleerebezem, M. (2005). New insights in the molecular biology and physiology of *Streptococcus thermophilus* revealed by comparative genomics. *FEMS microbiology reviews*, *29*(3), 435-463.
- Huang, S., Vignolles, M. L., Chen, X. D., Le Loir, Y., Jan, G., Schuck, P., & Jeantet, R. (2017). Spray drying of probiotics and other food-grade bacteria: A review. *Trends in food science & technology*, *63*, 1-17. doi: 10.1016/j.tifs.2017.02.007
- Hye, S. O. N. G., Lee, J. M., Chung, K. H., & An, J. H. (2018). Penicillin Binding Protein from *Pediococcus acidilactici* Isolated from Nuruk for Food Biopreservative. *Iranian Journal of Public Health*, *47*(11), 1653.
- Kang, S. S., Kim, M. K., & Kim, Y. J. (2019). Comprehensive evaluation of microbiological and physicochemical properties of commercial drinking yogurts in Korea. *Food science of animal resources*, *39*(5), 820.

- Kaur, H., Kaur, G., & Ali, S. A. (2022). Dairy-Based Probiotic-Fermented Functional Foods: An Update on Their Health-Promoting Properties. *Fermentation*, 8(9), 425.
- Kaur, S., Kaur, K., Bhushan, B., Kaur, M., & Hans, M. (2020). Inoculum Size and Age Studies on Single and Mixed Strain Fermentation of Grape Juice. *Journal of Pure and Applied Microbiology*, 14(3), 2137-2146.
- Laranjo, M., Potes, M. E., & Elias, M. (2019). Role of starter cultures on the safety of fermented meat products. *Frontiers in Microbiology*, 10, 853.
- Lucey, J. A. (2016). Acid coagulation of milk. *Advanced dairy chemistry: Volume 1B: Proteins: Applied aspects*, 309-328.
- Ma, C., Chen, Z., Gong, G., Huang, L., Li, S., & Ma, A. (2015). Starter culture design to overcome phage infection during yogurt fermentation. *Food Science and Biotechnology*, 24, 521-527.
- Machado, S. G., Baglinière, F., Marchand, S., Van Coillie, E., Vanetti, M. C., De Block, J., & Heyndrickx, M. (2017). The Biodiversity of the Microbiota Producing Heat-Resistant Enzymes Responsible for Spoilage in Processed Bovine Milk and Dairy Products. *Frontiers in microbiology*, 8, 302. <https://doi.org/10.3389/fmicb.2017.00302>
- Malaka, R., Ningrum, E., & Hajrawati (2020). Yoghurt Syneresis with Addition of Agar as Stabilizer. *Hasanuddin Journal of Animal Science (HAJAS)*, 43-51.
- Mandal, B. (2016). Study the Growth Kinetics of *Pediococcus acidilactici* with Estimation of Kinetic Parameters and Applied in Large Scale Peidocin Production. *Asian Journal of Pharmaceutical and Clinical Research*, 9(5).
- Mandal, V., Sen, S. K., & Mandal, N. C. (2010). Assessment of antibacterial activities of pediocin produced by *Pediococcus acidilactici* Lab 5. *Journal of food safety*, 30(3), 635-651.
- Matela, K. S., Pillai, M. K., & Thamae, T. (2019). Evaluation of pH, titratable acidity, syneresis and sensory profiles of some yoghurt samples from the Kingdom of Lesotho. *Food Research*, 3(6), 693-697.
- Melia, S., Juliyarsi, I., Kurnia, Y. F., Pratama, Y. E., & Pratama, D. R. (2020). The quality of fermented goat milk produced by *Pediococcus acidilactici* BK01 on refrigerator temperature. *Biodiversitas Journal of Biological Diversity*, 21(10).
- Mengesha, Y., Tebeje, A., & Tilahun, B. (2022). A Review on Factors Influencing the Fermentation Process of Teff (*Eragrostis teff*) and Other Cereal-Based Ethiopian Injera. *International Journal of Food Science*, 2022.
- Mizrahi, S. (2010). Syneresis in food gels and its implications for food quality. In *Chemical deterioration and physical instability of food and beverages* (pp. 324-348). Woodhead Publishing.
- Mudgal, S. P., & Prajapati, J. B. (2017). Dahi—An Indian Naturally Fermented Yogurt. In *Yogurt in health and disease prevention* (pp. 353-369). Academic Press.
- Nagaoka, S., & Kanauchi, M. (2019). *Lactic Acid Bacteria*.
- Peighambardoust, S. H., Tafti, A. G., & Hesari, J. (2011). Application of spray drying for preservation of lactic acid starter cultures: a review. *Trends in Food Science & Technology*, 22(5), 215-224.
- Priyashantha, H., Buldo, P., Berg, T., Gilleladden, C., & Ipsen, R. (2021). Understanding the fermentation factors affecting the separability of fermented milk: A model system study. *Food Structure*, 30, 100232.

- Purbowati, I. S. M., Karseno, K., Maksum, A., & Ibrahim, I. A. (2021). Performance Improvement of Yogurt Through The Variation of Roselle Extract Addition and Fermentation Time. *Agrointek: Jurnal Teknologi Industri Pertanian*, *15*(2), 477-485.
- Qiao, Y., Qiu, Z., Tian, F., Yu, L., Zhao, J., Zhang, H., ... & Chen, W. (2022). Effect of bacteriocin-producing *Pediococcus acidilactici* strains on the immune system and intestinal flora of normal mice. *Food Science and Human Wellness*, *11*(2), 238-246.
- Rani, R., Unnikrishnan, V. N. C., & Singh, B. (2012). Factors affecting syneresis in yoghurt: a review. *Indian J Dairy Biosci*, *23*, 2012.
- Salaün, F., Mietton, B., & Gaucheron, F. (2005). Buffering capacity of dairy products. *International Dairy Journal*, *15*(2), 95-109.
- Sharma, A., Noda, M., Sugiyama, M., Ahmad, A., & Kaur, B. (2021). Production of functional buttermilk and soymilk using *Pediococcus acidilactici* BD16 (alaD+). *Molecules*, *26*(15), 4671.
- Sharma, R., Garg, P., Kumar, P., Bhatia, S. K., & Kulshrestha, S. (2020). Microbial fermentation and its role in quality improvement of fermented foods. *Fermentation*, *6*(4), 106.
- Shiby, V. K., & Mishra, H. N. (2013). Fermented milks and milk products as functional foods—A review. *Critical reviews in food science and nutrition*, *53*(5), 482-496
- Shu, G., Li, C., Chen, H., & Wang, C. (2014). Effect of inoculum and temperature on the fermentation of goat yogurt. *Advance Journal of Food Science and Technology*, *6*(1), 68-71.
- Statista. (2022). "Milk-Indonesia". Retrieved February 19th, 2023, from <https://www.statista.com/outlook/cmo/food/dairy-products-eggs/milk/indonesia>
- Stulova, I., Kabanova, N., Kriščiunaite, T., Laht, T. M., & Vilu, R. (2011). The effect of milk heat treatment on the growth characteristics of lactic acid bacteria. *Agron. Res*, *9*, 473-478.
- Tamang, J. P., Watanabe, K., & Holzapfel, W. H. (2016). Diversity of microorganisms in global fermented foods and beverages. *Frontiers in microbiology*, *7*, 377.
- Tarazanova, M., Huppertz, T., Kok, J., & Bachmann, H. (2018). Altering textural properties of fermented milk by using surface-engineered *Lactococcus lactis*. *Microbial Biotechnology*, *11*(4), 770-780.
- Tomovska, J., Gjorgievski, N., & Makarijoski, B. (2016). Examination of pH, Titratable Acidity and Antioxidant Activity in Fermented Milk, Journal of materials Science and Engineering. *Journal of Materials Science and Engineering A*, *6*(11), 326-333.
- Vareltzis, P., Adamopoulos, K., Stavarakakis, E., Stefanakis, A., & Goula, A. M. (2016). Approaches to minimise yoghurt syneresis in simulated tzatziki sauce preparation. *International Journal of Dairy Technology*, *69*(2), 191-199.
- Vargas, S., Rodríguez, R., Quintanilla, F., & González-Torres, M. (2018). Colloidal aggregation induced by the reduction in pH and the synthesis of new molecular structures during the milk fermentation process. *International Journal of Dairy Technology*, *71*(1), 56-63.
- Wang, X., & Zhao, Z. (2022). Acid-Induced Gelation of Milk: Formation Mechanism, Gel Characterization, and Influence of Different Techniques.
- Wati, A. M., Lin, M. J., & Radiati, L. E. (2018). Physicochemical characteristic of fermented goat milk added with different starters lactic acid bacteria. *Jurnal Ilmu dan Teknologi Hasil Ternak (JITEK)*, *13*(1), 54-62.
- Xu, S., Song, X., Liu, J., Zhang, W., Yu, X., Yu, D., & Cheng, J. (2023). Screening and Identification of the Strain *Pediococcus acidilactici* and Its Application in Fermentation of Corn–Soybean Meal Uncooked Materials. *Fermentation*, *9*(4), 383.

Youm, T. H., & Lim, H. B. (2010). Antimicrobial Activities of Organic Extracts from Fruit of *Thuja orientalis* L. *Korean Journal of Medicinal Crop Science*, 18(5), 315-322.