

DAFTAR PUSTAKA

- Abedi, E., Hashemi, S. M. B. 2020. Lactic acid production—Producing microorganisms and substrates sources-state of art. *Heliyon*. 6(10): e04974.
- Agustina, R., Rahma, S., Arni, A., Sandhira, A. C., & Sukemi, S. (2022). Karakteristik trayek pH indikator alami dan aplikasinya pada titrasi asam dan basa. *Bivalen: Chemical Studies Journal*, 5(2), 51-56.
- Angelova, M. I., Bitbol, A.-F., Seigneuret, M., Staneva, G., Kodama, A., Sakuma, Y., Kawakatsu, T., Imai, M., Puff, N. 2018. pH sensing by lipids in membranes: The fundamentals of pH-driven migration, polarization and deformations of lipid bilayer assemblies. *Biochimica et Biophysica Acta (BBA) – Biomembranes*. 1860(10): 2042–2063.
- Arivo, D., Dwiningtyas, A. W. 2019. Pola kepekaan *Escherichia coli* penyebab infeksi saluran kemih terhadap antibiotik. *Jurnal Farmasi Malahayati*. 2(1): 12–17.
- Asaduzzaman, M., Mahomud, M. S., Haque, M. E. 2021. Heat-Induced Interaction of Milk Proteins: Impact on Yoghurt Structure. *International Journal of Food Science*, 2021. 1–10.
- Badan Pusat Statistik (BPS). 2024. *Produksi Susu Segar Menurut Provinsi (Ribuliter)*.
- Basavaraju, M., Gunashree, B. S. 2012. *Escherichia coli*: An Overview of Main Characteristics. *Intech, i(tourism)*. 13.
- Beis, K., Rebuffat, S. 2019. Multifaceted ABC transporters associated to microcin and bacteriocin export. *Research in Microbiology*. 170(8): 399–406.
- Beltrán-Barrientos, L. M., Hernández-Mendoza, A., Torres-Llanez, M. J., González-Córdova, A. F., Vallejo-Córdova, B. 2016. Invited review: Fermented milk as antihypertensive functional food. *Journal of dairy science*. 99(6): 4099-4110.
- Bonev, B., Hooper, J., Parisot, J. 2008. Principles of assessing bacterial susceptibility to antibiotics using the agar diffusion method. *Journal of Antimicrobial Chemotherapy*. 61(6): 1295–1301.
- Boulay, M., Al Haddad, M., Rul, F. 2020. *Streptococcus thermophilus* growth in soya milk: Sucrose consumption, nitrogen metabolism, soya protein

hydrolysis and role of the cell-wall protease PrtS. *International Journal of Food Microbiology*. 335: 108903.

Chandrasekar, V., Knabel, S. J., Anantheswaran, R. C. 2015. Modeling development of inhibition zones in an agar diffusion bioassay. *Food Science & Nutrition*. 3(5): 394–403.

Condon, S. 1987. Responses of lactic acid bacteria to oxygen. *FEMS Microbiology Letters*. 46(3): 269–280.

Daba, G. M., Elkhateeb, W. A. 2024. Ribosomally synthesized bacteriocins of lactic acid bacteria: Simplicity yet having wide potentials – A review. *International Journal of Biological Macromolecules*. 256, 128325.

Darbandi, A., Asadi, A., Mahdizade Ari, M., Ohadi, E., Talebi, M., Halaj Zadeh, M., Kakanj, M. 2022. Bacteriocins: properties and potential use as antimicrobials. *Journal of Clinical Laboratory Analysis*. 36(1): e24093.

Datta, F. U., Daki, A. N., Benu, I., Detha, A. I. R., Foeh, N. D. F. K., Ndaong, N. A. 2019. Uji Aktivitas Antimikroba Bakteri Asam Laktat Cairan Rumen Terhadap Pertumbuhan *Salmonella enteritidis*, *Bacillus cereus*, *Escherichia coli* dan *Staphylococcus aureus* Menggunakan Metode Difusi Sumur Agar. *Dictionary Geotechnical Engineering/Wörterbuch GeoTechnik*. 370-371.

Detha, A., Datta, F. U., Beribe, E., Foeh, N., Ndaong, N. 2019. Karakteristik Bakteri Asam Laktat yang Diisolasi dari Susu Kuda Sumba (*Characteristics of Lactic Acid Bacteria from Sumba Mares Milk*) Annytha. *Jurnal Kajian Veteriner*. 7(1): 85-92.

Davarzani, S., Sanjabi, M. R., Mojgani, N., Mirdamadi, S., Soltani, M. 2024. Investigating the antibacterial, antioxidant, and cholesterol-lowering properties of yogurt fortified with postbiotic of *Lactobacillus acidophilus* and *Lactiplantibacillus plantarum* in the Wistar rat model. *Journal of Food Protection*. 87(12): 100408.

FAO & WHO. 2024. Standard for Fermented Milks. *Codex Alimentarius No. CXS 243-2003*.

Flanagan, J. N., Steck, T. R. 2017. The Relationship Between Agar Thickness and Antimicrobial Susceptibility Testing. *Indian Journal of Microbiology*, 57(4), 503–506.

Ge, Y., Yu, X., Zhao, X., Liu, C., Li, T., Mu, S., Zhang, L., Chen, Z., Zhang, Z., Song, Z., Zhao, H., Yao, S., Zhang, B. 2024. Fermentation characteristics and postacidification of yogurt by *Streptococcus thermophilus* CICC 6038 and

- Lactobacillus delbrueckii* ssp. *Bulgaricus* CICC 6047 at optimal inoculum ratio. *Journal of Dairy Science*. 107(1): 123–140.
- Hainil, S., Elfasyari, T. Y., Sulistya, R. I. 2021. Identifikasi Bakteri *Escherichia coli* Susu Kedelai Murni di Pasar Jodoh Kota Batam. *Jurnal Surya Medika*, 7(1): 25-30.
- Hamidah, M. N., Rianingsih, L., Romadhon, R. 2019. Aktivitas Antibakteri Isolat Bakteri Asam Laktat dari Peda Dengan Jenis Ikan Berbeda Terhadap *E. coli* dan *S. aureus*. *Jurnal Ilmu dan Teknologi Perikanan*, 1(2): 11-21.
- Hassan, M. U., Nayab, H., Ur Rehman, T., Williamson, M. P., Ul Haq, K., Shafi, N., Shafique, F. 2020. Characterisation of Bacteriocins Produced by *Lactobacillus spp.* Isolated from The Traditional Pakistani Yoghurt and Their Antimicrobial Activity Against Common Foodborne Pathogens. *BioMed Research International*. 2020: 8281623.
- Hécharde, Y., Sahl, H.-G. 2002. Mode of action of modified and unmodified bacteriocins from Gram-positive bacteria. *Biochimie*, 84(5–6), 545–557.
- Hendarto, D. R., Handayani, A. P., Esterelita, E., Handoko, Y. A. 2019. Mekanisme Biokimiawi dan Optimalisasi *Latobacillus bulgaricus* dan *Streptococcus thermophilus* dalam Pengolahan Yoghurt yang Berkualitas. *J. Sains Dasar*, 8(1): 13-19.
- Hernández-Gómez, J.G., Gutiérrez-López, Y.A., Méndez-Albores, A., Vázquez-Durán, A. 2021. ‘Antimicrobial mechanisms of nisin against Gram-negative bacteria facilitated by membrane destabilization’, *Frontiers in Microbiology*, 12:1–12.
- Hertzberger, R., Arents, J., Dekker, H. L., Pridmore, R. D., Gysler, C., Kleerebezem, M., De Mattos, M. J. T. (2014). H₂ O₂ Production in Species of the *Lactobacillus acidophilus* Group: A Central Role for a Novel NADH-Dependent Flavin Reductase. *Applied and Environmental Microbiology*. 80(7): 2229–2239.
- Imelda, F., Purwandani, L., Saniah, S. 2020. Total Bakteri Asam Laktat, Total Asam Tertitrasi dan Tingkat Kesukaan pada Yoghurt Drink dengan Ubi Jalar Ungu sebagai Sumber Prebiotik. *Jurnal Vokasi*, 15(1): 1-7.
- Institute for Health Metrics and Evaluation (IHME). 2025. *The Burden of Antimicrobial Resistance (AMR) in Indonesia*.
- Ismail, Riski, R., Salsabila, N. 2023. Isolasi, Formulasi, dan Uji Efektivitas Antibakteri Granul Liofilisat Bakteri Asam Laktat Asal Kimchi terhadap

Bakteri Penyebab Diare. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*. 19(1): 171.

Kasanga, M., Shampela, D. M., Daka, V., Mwikisa, M. J., Sikalima, J., Chanda, D., Mudenda, S. 2024. Antimicrobial Resistance Profiles of *Escherichia coli* Isolated from Clinical and Environmental Samples: Findings and Implications. *JAC-Antimicrobial Resistance*, 6(2): 61.

Khususuma, A., Safitri, Y., Yuniarni, A., Rizki, K. 2019. Uji Teknik Difusi Menggunakan Kertas Saring Media Tampung Antibiotik dengan *Escherichia coli* Sebagai Bakteri Uji. *Jurnal Kesehatan Prima*, 13(2): 151.

Kumar, M., Yadav, A.K., Verma, R., Kumar, V. Singh, D. 2022. 'Bacteriocins and their synergistic interaction with permeabilizing agents against Gram-negative bacteria', *Foods*. 11(3):1–19.

Kumariya, R., Garsa, A. K., Rajput, Y. S., Sood, S. K., Akhtar, N., Patel, S. 2019. Bacteriocins: Classification, synthesis, mechanism of action and resistance development in food spoilage causing bacteria. *Microbial Pathogenesis*. 128: 171–177.

Le Roy, C. I., Kurilshikov, A., Leeming, E. R., Visconti, A., Bowyer, R. C. E., Menni, C., Falchi, M., Koutnikova, H., Veiga, P., Zhernakova, A., Derrien, M., Spector, T. D. 2022. Yoghurt Consumption is Associated with Changes in the Composition of the Human Gut Microbiome and Metabolome. *BMC microbiology*. 22(1): 39.

Liu, Y., Zhao, Y., Wang, J. 2021. Fenton/Fenton-like processes with in-situ production of hydrogen peroxide/hydroxyl radical for degradation of emerging contaminants: Advances and prospects. *Journal of Hazardous Materials*, 404, 124191.

Marušćáková, I., Schusterová, P., Bielik, B., Toporčák, J., Bíliková, K., Mudroňová, D. 2020. Effect of Application of Probiotic Pollen Suspension on Immune Response and Gut Microbiota of Honey Bees. *Probiotics Antimicro*, 12 (1): 929–936.

Md Sidek, N. L., Halim, M., Tan, J. S., Abbasiliasi, S., Mustafa, S., Ariff, A. B. 2018. Stability of Bacteriocin-Like Inhibitory Substance (BLIS) Produced by *Pediococcus acidilactici* kp10 at Different Extreme Conditions. *BioMed Research International*, 2018, 5973484.

Moghaddam, M. Z., Sattari, M., Mobarez, A. M., Doctorzadeh, F. 2006. Inhibitory effect of yoghurt Lactobacilli bacteriocins on growth and verotoxins production of enterohemorrhagic *Escherichia coli* O157: H7. 2112-2116.

- Monteiro, A., Matos, S. L. S., Correia, P. 2016. Goat and Sheep Milk as Raw Material for Yogurt. *Intech*, 11(tourism), 13.
- Meriyani, H., Sanjaya, D. A., Sutariani, N. W., Juanita, R. R. A., Siada, N. B. 2021. Antibiotic Use and Resistance at Intensive Care Unit of a Regional Public Hospital in Bali: A 3-Year Ecological Study. *Indonesian Journal of Clinical Pharmacy*, 10(3): 180-189.
- Miller, R. A., Walker, R. D., Baya, A., Clemens, K., Coles, M., Hawke, J. P., Henricson, B. E., Hsu, H. M., Mathers, J. J., Oaks, J. L., Papapetropoulou, M., Reimschuessel, R. 2003. Antimicrobial Susceptibility Testing of Aquatic Bacteria: Quality Control Disk Diffusion Ranges for *Escherichia coli* ATCC 25922 and Aerom Onas *Salmonicida subsp. Salmonicida* ATCC 33658 at 22 and 28 Degrees C. *Journal of clinical microbiology*, 41(9): 4318–4323.
- Minogue, T. D., Daligault, H. A., Davenport, K. W., Bishop-Lilly, K.A., Broomall, S. M., Bruce, D. C., Chain, P. S., Chertkov, O., Coyne, S. R., Freitas, T., Frey, K. G., Gibbons, H. S., Jaissle, J., Redden, C. L., Rosenzweig, C. N., Xu, Y., Johnson, S. L. 2014. Complete Genome Assembly of *Escherichia coli* ATCC 25922, a Serotype O6 Reference Strain. *Genome announcements*, 2(5): 14.
- Mokoena, M. P. 2017. Lactic Acid Bacteria and Their Bacteriocins: Classification, Biosynthesis and Applications Against Uropathogens: A mini-review. *Molecules*, 22(8): 1255.
- Monteiro, A., Matos, S. L. S., Correia, P. 2016. Goat and Sheep Milk as Raw Material for Yoghurt. *Intech*, 11 (tourism), 13.
- Mueller, M., Tainter, C. R. 2025. *Escherichia coli* infection. In StatPearls. StatPearls Publishing. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK564298/> [Accessed 9 May 2025]
- Munir, M. A., Syafitri, N., Aprilia, V., Emelda, E. 2023. Aplikasi Metode Titrasi Iodometri Untuk Determinasi Kadar Vitamin C Pada Jambu (Myrtaceae Family). *Fullerene Journal of Chemistry*, 8(2): 38-43.
- Nagaoka, S. 2018. Yogurt production. In *Lactic acid bacteria: Methods and protocols*. New York, NY: Springer New York. 45-54.
- Nikaido, H. 2003. Molecular basis of bacterial outer membrane permeability revisited. *Microbiology and molecular biology reviews*. 67(4): 593-656.
- Nanninga, N. 1998. Morphogenesis of *Escherichia coli*. *Microbiology and Molecular Biology Reviews*, 62(1): 110-129.

- Nguyen, H. T. H., Schwendel, H., Harland, D., Day, L. 2018. Differences in the yoghurt gel microstructure and physicochemical properties of bovine milk containing A1A1 and A2A2 β -casein phenotypes. *Food Research International*, 112, 217–224.
- Noda, M., Miyauchi, R., Danshiitsoodol, N., Matoba, Y., Kumagai, T., Sugiyama, M. 2018. Expression of Genes Involved in Bacteriocin Production and Self-Resistance in *Lactobacillus brevis* 174A Is Mediated by Two Regulatory Proteins. *Applied and Environmental Microbiology*. 84(7): 7-17.
- Nughrhani, G., Apridamayanti, P., Sari, R. 2020. Aktivitas Antibakteri Yogurt Hasil Fermentasi *Lactobacillus plantarum* terhadap Bakteri *Escherichia coli* dan *Staphylococcus aureus*. *Jurnal Cerebellum*, 6(2): 55-58.
- Nugroho, M. R. 2023. Sifat Fisik dan Total Bakteri Asam Laktat (BAL) Yoghurt dengan Bahan Baku Susu Sapi Yang Berbeda. *Nucl. Phys.*, 13(1): 104-116.
- Nurhayati, L. S., Yahdiyani, N., Hidayatulloh, A. 2020. Perbandingan Pengujian Aktivitas Antibakteri Starter Yogurt dengan Metode Difusi Sumuran dan Metode Difusi Cakram. *Jurnal Teknologi Hasil Peternakan*, 1(2): 41.
- Nurfuzianti, R., Lubis, N., J, E. C. 2021. Review: Pengaruh Proses Fermentasi terhadap Kandungan Asam Laktat Pada Makanan Fermentasi. *Parapemikir: Jurnal Ilmiah Farmasi*, 10(2): 71.
- Nurhayati, L. S., Yahdiyani, N., Hidayatulloh, A. 2020. Perbandingan Pengujian Aktivitas Antibakteri Starter Yoghurt dengan Metode Difusi Sumuran dan Metode Difusi Cakram. *Jurnal Teknologi Hasil Peternakan*. 1(2): 41.
- Ocviyanti, D., Putri, R. A. 2021. Aspek Biopsikososial pada Perempuan Hamil dengan Kecurigaan Mati Batang Otak. *Indonesia Journal of Obstetrics and Gynecology*. 9(2): 107-110.
- Pakbin, B., Brück, W. M., Rossen, J. W. A. 2021. Virulence Factors of Enteric Pathogenic *Escherichia coli*: A review. *International Journal of Molecular Sciences*. 22(18): 9922.
- Pakpahan, R. 2025. *Korban Keracunan Program MBG Tembus 5.914 Orang per September 2025*. MONITOR INDONESIA.
- Pamela, V. Y. 2022. Karakteristik Karakteristik Sifat Organoleptik Yoghurt Dengan Variasi Susu Skim Dan Lama Inkubasi. *Nutriology: Jurnal Pangan, Gizi, Kesehatan*. 3(1): 18–24.
- Papadimitriou, K., Alegría, Á., Bron, P. A., De Angelis, M., Gobbetti, M., Kleerebezem, M., Lemos, J. A., Linares, D. M., Ross, P., Stanton, C., Turróni,

- F., Van Sinderen, D., Varmanen, P., Ventura, M., Zúñiga, M., Tsakalidou, E., Kok, J. 2016. Stress Physiology of Lactic Acid Bacteria. *Microbiology and Molecular Biology Reviews*. 80(3): 837–890.
- Peramiarti, I. D. S. A. P. 2021. Lactic acid bacteria (*Lactobacillus bulgaricus* and *Streptococcus thermophilus*) in yogurt inhibit the growth of *Escherichia coli*, *Salmonella typhimurium*, and *Shigella* sp. in vitro. *Jurnal Kedokteran Brawijaya*. 31(4): 211-215.
- Pérez-Ramos, A., Madi-Moussa, D., Coucheney, F., Drider, D. 2021. Current Knowledge of the Mode of Action and Immunity Mechanisms of LAB-Bacteriocins. *Microorganisms*. 9(10): 2107.
- Poirel, L., Madec, J. Y., Lupo, A., Schink, A. K., Kieffer, N., Nordmann, P., Schwarz, S. 2018. Antimicrobial resistance in *Escherichia coli*. *Microbiology spectrum*. 6(4): 10-1128.
- Purwantiningsih, T. I., Bria, M. A. B., Kia, K. W. 2022. Levels Protein and Fat of Yoghurt Made of Different Types and Number of Cultures. *Journal of Tropical Animal Science and Technology*. 4(1): 66–73.
- Putri, F. N. A., Purwijantiningsih, E., Pranata, F. S. 2021. Review Jurnal: Pemanfaatan Bakteriosin Untuk Meningkatkan Masa Simpan Produk Minuman. *JITIPARI (Jurnal Ilmiah Teknologi dan Industri Pangan UNISRI)*, 6(2): 96-108.
- Ragab, T. I. M., Badawi, K. R. M., Naeem, M. A., Helmy, W. A., Gamal Shalaby, A. S. 2023. Enhancement of the quality attributes and health benefits synbiotic yoghurt from cow's milk. *Heliyon*. 9(6), e17330.
- Rahayu, W. P., Nurjanah, S., Komalasari, E. 2018. *Escherichia coli*: Patogenitas, Analisis, dan Kajian Risiko. *IPB Press*, 1–151.
- Roux, E., Nicolas, A., Valence, F., Siekaniec, G., Chuat, V., Nicolas, J., Le Loir, Y., Guédon, E. 2022. The genomic basis of the *Streptococcus thermophilus* health-promoting properties. *BMC Genomics*, 23(1), 1–23.
- Raningsih, M., Wulansari, N. T., Suarnadi, N. K. 2021. Efektivitas Bakteriosin *Streptococcus thermophilus* Terhadap Pertumbuhan *Escherichia coli* dan *Staphylococcus aureus*. *BIO-EDU: Jurnal Pendidikan Biologi*, 6(2): 83-89.
- Ranadheera, C. S., Evans, C. A., Adams, M. C., Baines, S. K. 2017. Probiotic Viability and Physico-chemical and Sensory Properties of Plain and Stirred Fruit Yoghurt Made From Goat's Milk. *Food Chemistry*, 135(3): 1411-1418.

- Rini, C. S., Rochmah, J. 2020. *Buku Ajar Mata Kuliah: Bakteriosin Dasar*. Universitas Sidoarjo: Umsida Press 1(1).
- Roux, E., Nicolas, A., Valence, F., Siekaniec, G., Chuat, V., Nicolas, J., Le Loir, Y., Guédon, E. 2022. The Genomic Basis of The *Streptococcus thermophilus* Health-Promoting Properties. *BMC Genomics*, 23(1): 1-23.
- Sadighbathi, S., Saris, P. E. J., Amiri, S., Yousefvand, A. 2023. Development and properties of functional yoghurt enriched with postbiotic produced by yoghurt cultures using cheese whey and skim milk. *Frontiers in Microbiology*, 14, 1276268.
- Sarkar, S., Mandal, S., Bhowmik, P. Ghosh, K. 2020. ‘Application of lactic acid bacteria and their bacteriocins for controlling Gram-negative pathogens in foods’, *Journal of Applied Microbiology*, 129(5):1248–1262.
- Savira, H. G., Trimulyono, G. 2021. Uji Aktivitas Antibakteri Isolat Bakteri yang Diisolasi dari Umbi Porang (*Amorphophallus muelleri*) terhadap *Escherichia coli* FNCC 0091 dan *Staphylococcus aureus* FNCC 0047. *LenteraBio: Berkala Ilmiah Biologi*, 10(3):347-355.
- Soltani, S., Hammami, R., Cotter, P.D., Rebuffat, S., Said, L.B., Gaudreau, H., Fliss, I. 2021. ‘Bacteriocins as antimicrobial peptides against Gram-negative bacteria: overcoming the outer membrane barrier’, *Pharmaceuticals*, 14(11):1–23.
- Setia, R., Wijayanti, E. D. 2019. Aktivitas Antibakteri Yoghurt Daun Kelor (*Moringa oleifera*) dan Lidah Buaya (*Aloe vera*) terhadap *Escherichia coli*. Diploma Thesis. *Akademi Farmasi Putera Indonesia Malang*, 7-38.
- Statista. 2023. Indonesia: market value of yogurt 2020–2025. Available at: Yogurt - Indonesia | Statista Market Forecast
- Stephen, J. M., Saleh, A. M. 2023. Homofermentative *Lactobacilli* Isolated from Organic Sources Exhibit Potential Ability of Lactic Acid Production. *Frontiers in Microbiology*, 14: 1297036.
- Sharma, B. R., Halami, P. M., Tamang, J. P. 2022. Novel pathways in bacteriocin synthesis by lactic acid bacteria with special reference to ethnic fermented foods. *Food Science and Biotechnology*, 31(1), 1–16.
- Singh, J. K., Devi, P. B., Reddy, G. B., Jaiswal, A. K., Kavitate, D., Shetty, P. H. 2024. Biosynthesis, classification, properties, and applications of Weissella bacteriocins. *Frontiers in Microbiology*, 15, 1406904.

- Singh, S., Sharma, A., Kaur, M., Kaur, R. 2023. 'Nisin and other lantibiotics: recent developments in overcoming Gram-negative resistance barriers', *Critical Reviews in Microbiology*, 49(2):158–175.
- Situmorang, R. F. R., Manihuruk, F. N. 2020. Identifikasi Bakteri *Escherichia coli* pada Bakso Bakar yang Diperjualbelikan di Sekitar Pasar Usu Kota Medan. *The Indonesian Journal of Medical Laboratory*, 1(1): 1-10.
- Sunaryanto, R., Tarwadi, T. 2015. Isolasi dan Karakterisasi Bakteriosin yang Dihasilkan oleh *Lactobacillus lactis* dari Sedimen Laut. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*. 10(1): 11-18.
- Sodini, I., Lucas, A., Oliveira, M. N., Remeuf, F., Corrieu, G. 2002. Effect of Milk Base and Starter Culture on Acidification, Texture, and Probiotic Cell Counts in Fermented Milk Processing. *Journal of Dairy Science*, 85(10), 2479–2488.
- Tamime, A.Y., Robinson, R.K. 2009. *Tamime and Robinson's Yoghurt Science and technology*. 3rd ed. Cambridge: Woodhead Publishing.
- Tenggana, M. E., Rahayu, W. P., Wulandari, R. 2020. Pengetahuan Keamanan Pangan Mahasiswa Mengenai Lima Kunci Keamanan Pangan Keluarga. *Jurnal Mutu Pangan: Indonesian Journal of Food Quality*. 7(2): 67-72.
- Tufail, M., Hussain, S., Malik, F., Mirza, T., Parveen, G., Shafaat, S., Wajid, A., Mahmood, R., Channa, R. A., Sadiq, A. 2019. Isolation and Evaluation of Antibacterial Activity of Bacteriocin Produced by *Lactobacillus bulgaricus* from Yoghurt. *Advanced Journal of Microbiology Research*, 13(6): 1-6.
- Utami, M. M. D., Pantaya, D., Subagja, H., Ningsih, N., Dewi, A. C. 2020. Teknologi Pengolahan Yoghurt Sebagai Diversifikasi Produk Susu Kambing pada Kelompok Ternak Desa Wonoasri Kecamatan Tempurejo Kabupaten Jember. *PRIMA: Journal of Community Empowering and Services*, 4(1): 30.
- Voidarou, C., Antoniadou, M., Rozos, G., Tzora, A., Skoufos, I., Varzakas, T., Lagiou, A., Bezirtzoglou, E. 2020. Fermentative Foods: Microbiology, Biochemistry, Potential Human Health Benefits and Public Health Issues. *Foods*, 10(1): 69.
- Wang, Y., Wu, J., Lv, M., Shao, Z., Hungwe, M., Wang, J., Bai, X., Xie, J., Wang, Y., Geng, W. 2021. Metabolism Characteristics of Lactic Acid Bacteria and The Expanding Applications in Food Industry. *Frontiers in Bioengineering and Biotechnology*, 9: 612285.
- Wulandari, D., Dewantoro, G., Lunggani, A. T., Supriyadi, A., Riani, C., Setiawan, E., Budiharjo, A. 2022. Antibacterial Activity of Freshwater Sponge

Oncosclera asiatica Against Escherichia coli and Staphylococcus aureus. *Bioma: Berkala Ilmiah Biologi*. 24(2): 120-129.

Yerlikaya, O. 2023. A Review of Fermented Milks: Potential Beneficial Effects on Human Nutrition and Health. *African Health Sciences*, 23(4): 498-507.

Zhang, C., Zhang, S., Liu, W., Guo, T., Gu, R., Kong, J. 2019. Potential Application and Bactericidal Mechanism of Lactic Acid–Hydrogen Peroxide Consortium. *Applied Biochemistry and Biotechnology*. 189(3),

Zhang, Y., Vadlani, P. V. 2013. D-Lactic acid biosynthesis from biomass-derived sugars via Lactobacillus delbrueckii fermentation. *Bioprocess and Biosystems Engineering*. 36(12): 1897–1904.

Zhang, Q., He, G., Wang, W., Xia, X. 2022. ‘Synergistic interactions between bacteriocins and natural permeabilizers against *Escherichia coli*’, *International Journal of Food Microbiology*, 373:1–9.

