

DAFTAR PUSTAKA

- Adesulu-Dahunsi A.T., Dahunsi S.O., dan Olayanju A. 2019. Synergistic microbial interactions between lactic acid bacteria and yeasts during production of Nigerian indigenous fermented foods and beverages. *Food Control*: 1-30. DOI: <https://doi.org/10.1016/j.foodcont.2019.106963>.
- Anjum, N., Maqsood, S., Masud, T., Ahmad, A., dan Momin, A. 2013. *Lactobacillus acidophilus*: characterization of the species and application in food production. *Critical Reviews in Food Science and Technology*, 54(9): 1241-12451.
- Aristya, A.L., Legowo, A.M., dan Al-Baarri, A.N. 2013. Total asam, total yeast, dan profil protein kefir susu kambing dengan penambahan jenis dan konsentrasi gula yang berbeda. *Jurnal Pangan dan Gizi*, 4(1): 39-48.
- Astuti, A., Rochmayani, M., dan Aulia, R. 2018. Nawake (Nira Water Kefir): pemanfaatan nira aren sebagai minuman fungsional kaya probiotik. *Agritech*, 20 (1): 7-12.
- Ayuti, S.R., Nurliana, Yurliasni, Sugito, dan Darmawi. 2016. Dinamika pertumbuhan *Lactobacillus casei* dan karakteristik susu fermentasi berdasarkan suhu dan lama penyimpanan. *Jurnal Agripet*, 16(1): 23-30.
- BSN. 2009. SNI 7552:2009: Minuman susu fermentasi berperisa. Badan Standarisasi Nasional, Jakarta.
- Cai, Y., Sounderrajan, A., dan Serventi, L. 2020. Water kefir: a review of its microbiological profile, antioxidant potential and sensory quality. *Acta Scientific Nutritional Health*, 4(6): 10-17.
- Codex Alimentarius Commission. 2003. *Codex standard for fermentation milks: Codex Stan 243-2003*. FAO United Nations, London.
- Devita, M., Rizqiati, H., dan Pramono, Y. 2019. Pengaruh lama fermentasi terhadap kadar alkohol, lemak, nilai pH, dan total BAL kefir prima susu kambing. *Jurnal Teknologi Pangan*, 3(2): 204-208. DOI: <https://doi.org/10.14710/jtp.3.2.204-208>
- Dewi, A. C., Rahardjo, A. H. D., Setyawardani, T., dan Subagja, H. 2020. Study on kefir grain concentration and the different length of storage on the

physicochemical of goat milk kefir. *Journal of Physics: Conference Series*, 1569. DOI: 10.1088/1742-6596/1569/3/032001.

Diastari, I. G. A. F., dan Agustina, K. K. 2013. Uji organoleptik dan tingkat keasaman susu sapi kemasan yang dijual di pasar tradisional Kota Despansar. *Indonesia Medicus Veterinus*, 2(4): 453-460.

Dwiloka, B., Rizqiati, H., dan Setiani, B. E. 2020. Physicochemical and sensory characteristics of green coconut (*Cocos Nucifera L.*) water kefir. *International Journal of Food Studies*, 9: 346-359. DOI: 10.7455/ijfs/9.2.2020.a7.

Fiorda, F. A., de Melo Pereira, G. V., Thomaz- Soccol, V., Rakshit, S. K., Binder Pagnon- celli, M. G., de Souza Vandenberghe, L. P. & Soccol, C. R. 2017. Microbiological, biochemical, and functional aspects of sugary kefir fermentation-a review. *Food Microbiology*, 66: 86- 95. DOI:10.1016/j.fm.2017.04.004.

FSANZ. Food Standards Australia New Zealand. 2014. *Food standard code-standard 2.5.3 (Fermented milk products)*. Food Standard Australia New Zealand Act 1991.

Guzel-Seydim, Z. B., Gökirmaklı, Ç., dan Greene, A. K. 2021. A comparison of milk kefir and water kefir: physical, chemical, microbiological and functional properties. *Trends in Food Science and Technology*, 113: 42–53. DOI: <https://doi.org/10.1016/j.tifs.2021.04.041>.

Haliem, I. A. P., Nugerahani, I., dan Rahayu, E. S. 2017. Kajian proporsi sari nanas dan konsentrasi starter terhadap sifat kimia dan organoleptik kefir nanas. *Jurnal Teknologi Pangan dan Gizi*, 16(1): 29-35.

Hecer, C., Ulusoy, B., dan Kaynarca, D. 2019. Effect of different fermentation conditions on composition of kefir microbiota. *International Food Research Journal*, 26(2): 401-409.

Hendarto, D. R., Handayani, A. P., Esterelita, E., dan Handoko, Y. A. 2019. Mekanisme biokimiawi dan optimalisasi *Lactobacillus bulgaricus* dan *Streptococcus thermophilus* dalam pengolahan yoghurt yang berkualitas. *Jurnal Sains Dasar*, 8(1): 13-19.

Herlina, E., dan Nuraeni, F. 2014. Pengembangan produk pangan fungsional berbasis ubi kayu (*Manihot esculenta*) dalam menunjang ketahanan pangan. *Jurnal Sains Dasar*, 3(2): 142-148.

Jan, A., dan Masih, E. D. 2012. Development and quality evaluation of pineapple juice blend with carrot and orange juice. *International Journal of Scientific and Research Publication*, 2(8) : 1-8

JETRO. 2011. *Specifications and standards for foods, food additives, etc. under the Food Sanitation Act*. Japan External Trade Organization.

Kazakos Stavros., Matzourani, I., Nouska, C., Alexopoulos, A., Bezirtzoglou, E., Bekatorou, A., Plessas, S., dan Varzakas, T. H. 2016. Production of low-alcohol fruit beverages through fermentation of pomegranate and orange juices with kefir grains. *Current Research in Nutrition and Food Science Journal*, 4(1): 19-26. DOI: 10.12944/CRNFSJ.4.1.04.

KEBS. 2018. *Fermented (cultured) milks – specification DKS 941:2018*. Kenya Bureau of Standards.

Kim, B. H., dan Gadd, G. M. 2019. Anaerobic fermentation in prokaryotic metabolism and physiology. *Korea Institute of Science and Technology* : 230-267.

Kurniawidi, T., dan Utomo, D. 2021. Pengaruh konsentrasi *starter* dan macam buah terhadap karakteristik kefir air. *Teknologi Pangan: Media Informasi dan Komunikasi Ilmiah Teknologi Pertanian*, 12(2): 296-304. DOI: <https://doi.org/10.35891/tp.v12i2.2683>.

Kusmawati, S., Rizqiati, H., Nurwantoro, dan Susanti, S. 2019. Analisis kadar alkohol, nilai pH, viskositas, dan total khamir pada *water kefir* semangka dengan variasi konsentrasi sukrosa. *Jurnal Teknologi Pangan*, 4(2): 127-130.

Laureys, D. & De Vuyst, L. 2014. Microbial species diversity, community dynamics, and metabolite kinetics of water kefir fermentation. *Applied and Environmental Microbiology*, 80 (8), 2564–2572. DOI:10.1128/AEM.03978-13.

Leite, A.M.O., Miguel, M. A., Peixoto, R. S., Rosado, A. S., Silva, J. T., dan Paschoalin, V. M.. 2013. Microbiological, technological and therapeutic properties of kefir: a natural probiotic beverage. *Brazilian Journal of Microbiology*, 44 (2): 341-349. DOI: 10.1590/S1517-83822013000200001.

- Lengkey, H. A., dan Roostita, L. B. 2014. The effect of starter dosage and fermentation time on pH and lactic acid production. *Biotechnology in Animal Husbandry*, 30(2): 339-347. DOI: 10.2298/BAH1402339L.
- Lestari, M. W., Bintoro, V. P., dan Rizqiati, H. 2018. Pengaruh lama fermentasi terhadap tingkat keasaman, viskositas, kadar alkohol dan mutu hedonik kefir air kelapa. *Jurnal Teknologi Pangan*, 2(1): 8-13.
- Magalhães, K. T., Pereira, G. V. M., Campos, C. R., Dragone, G., dan Schwan, F. R. 2011. Brazilian kefir: Structure, microbial communities and chemical composition. *Brazilian Journal of Microbiology*, 42(2): 693–702. DOI:10.1590/S1517-838220110002000034.
- Margareth, L. L., Nurwantoro, dan Rizqiati, H. 2020. Effect of different kefir grain starter concentration on yield, pH, CO₂ content, and organoleptic properties of buffalo milk kefir. *Journal of Applied Food Technology*, 7(1): 15-18. Doi: 10.17728/jaft.6513.
- Martínez-Torres, A., Gutiérrez-Ambrocio, S., Heredia-del-Orbe, P., Villa-Tanaca, L., dan Hernández-Rodríguez, C. 2017. Inferring the role of microorganisms in water kefir fermentations. *International Journal of Food Science and Technology*, 52(2): 559-571.
- Mandang, F. O., Dien, H., dan Yelnetty, A. 2016. Aplikasi penambahan konsentrasi susu skim terhadap kefir susu kedelai (*Glycine max*). *Jurnal Ilmu dan Teknologi Pangan*, 4(1): 9-17.
- Mani, A. 2018. Food preservation by fermentation and fermented food products. *International Journal of Academic Research and Development*, 1: 51-57.
- Mayasari, D., I. Nugrahani dan E. S. Rahayu. 2016. Kajian proporsi sari nanas dan konsentrasi starter terhadap aktivitas antibakteri kefir nanas. *Jurnal Teknologi Pangan dan Gizi*, 15(2): 94-100.
- Mokoena, M.P. 2017. Lactic acid bacteria and their bacteriocins: classification, biosynthesis and applications against uropathogens: a mini-review. *Molecules*, 22 (8): 1-13. DOI: <https://doi.org/10.3390/molecules22081255>.
- Mokoginta, Z. P., Wowor, V. N. S., dan Juliatri. 2017. Pengaruh berkumur air kelapa muda terhadap pH saliva. *Jurnal Ilmiah Farmasi- UNSRAT*, 6 (1): 24-30. DOI: <https://doi.org/10.35799/pha.6.2017.15001>.

- Mubin, M. F., dan E. Zubaidah. 2016. Studi pembuatan kefir nira siwalan (*Borassus flabellifer* L.) (pengaruh pengenceran nira siwalan dan metode inkubasi). *Jurnal Pangan dan Agroindustri*, 4(1): 291-301.
- Mulyono, A.M.W., K.A. Andika, and S. Sukaryani. 2018. The effect of incubation time on fermentation of cassava bagasse by *Trichoderma Mutant*. *Advances in Engineering Research*, 175: 78-80. DOI: <https://doi.org/10.2991/icase-18.2018.21>.
- Nasrun, Jalaludin, dan Mahfuddhah. 2015. Pengaruh jumlah ragi dan lama fermentasi terhadap kadar bioetanol yang dihasilkan dari fermentasi kulit pepaya. *Jurnal Teknologi Kimia Unimal*, 4(2): 1-10.
- Ningsih, R., Rizqiati, H., dan Nurwantoro. 2019. Total padatan terlarut, viskositas, total asam, kadar alkohol, dan mutu hedonik *water kefir* semangka dengan lama fermentasi yang Berbeda. *Jurnal Teknologi Pangan*, 3(2): 225-331.
- Nur'utami, D. A., Pertiwi, S. R. R., Syarifah, N. 2018. Formulasi kefir rendah lemak dari kacang bamba (*Vigna subterranae*) dengan variasi waktu fermentasi dan konsentrasi starter. *Jurnal Agroindustri Halal*, 4(2): 192-199. Doi: <https://doi.org/10.30997/jah.v4i2.1327>.
- Prastiwi, V.F., Bintoro, V.P., dan Rizqiati, H. 2018. Sifat mikrobiologi, nilai viskositas dan organoleptik kefir optima dengan penambahan high fructose syrup (HFS). *Jurnal Teknologi Pangan*, 2(1): 27-32.
- Pundir, R.K. Rana, S., Kashyap, N., dan Kaur, A. 2013. Probiotic potential of lactic acid bacteria isolated from food samples: an in vitro study. *Journal of Applied Pharmaceutical Science*, 3 (3): 85-93. DOI: 10.7324/JAPS.2013.30317.
- Purba, A.P., Dwiloka, B. dan Rizqiati, H. 2018. "Pengaruh Lama Fermentasi Terhadap Bakteri Asam Laktat (BAL), Viskositas, Aktivitas Antioksidan, dan Organoleptik *Water Kefir* Anggur Merah (*Vitis vinifera* L.)". *Jurnal Teknologi Pangan* Vol. 2 (1): 49-55.
- Purnomo, H., dan Muslimim, L. D. 2012. Chemical characteristics of pasteurised goat milk and goat milk kefir prepared using different amount of Indonesian kefir grains and incubation times. *International Food Research Journal*, 19(2):791-794.

- Radiati, L. E., Andriani, R. D., Apriliyani M. W., dan Rahayu, P. P. 2019. *Mikrobiologi Dasar Hasil Ternak*. Malang, UB Press.
- Rahmadi, A., Emmawati, A., Saragih, B., dan Jenie, B. S. L. 2019. "Peranan bakteri asam laktat bagi pangan dan kehidupan manusia". Mulawarman University Press, Samarinda.
- Randazzo, W., Corona, O., Guarcello, R., dan Frances, R. 2015. Development of new non-dairy beverages from Mediterranean fruit juices fermented with water kefir microorganisms. *Food Microbiology*, 54: 40-51. DOI: 10.1016/j.fm.2015.10.018.
- Rizal, S., Erna, M., Nurainy, F., dan Tambunan, A. R. 2016. Karakteristik probiotik minuman fermentasi laktat sari buah nanas dengan variasi jenis bakteri asam laktat. *Jurnal Kimia Terapan Indonesia*, 18(1): 63-71.
- Rizqiati, H., Nurwantoro, dan Susanti, S. 2019. Analisis total asam, kadar protein, kadar lemak, dan kadar laktosa kefir susu kerbau dengan lama fermentasi yang berbeda. *Prosiding Seminar Nasional dan Call for Papers 2019*: 291-296. Purwokerto, 20 November 2019. Fakultas Peternakan dan Pertanian Universitas Diponegoro.
- Rizqiati, H., Mulyani, S., dan Ramadhanti, D. L. 2021. Pengaruh variasi konsentrasi sukrosa terhadap total bakteri asam laktat, pH, kadar alkohol, dan hedonik *water kefir* belimbing manis (*Averrhoa carambola*). *Jurnal Ilmiah Sains*, 21(1): 54-62. DOI: <https://doi.org/10.35799/jis.21.1.2021.31160>.
- Rizqiati, H., Mulyani, S., Ramadhanti, D. L. 2021. Pengaruh variasi konsentrasi sukrosa terhadap total bakteri asam laktat, pH, kadar alkohol, dan hedonik *water kefir* belimbing manis (*Averrhoa carambola*). *Jurnal Ilmiah Sains*, 21(1): 54-62. DOI: <https://doi.org/10.35799/jis.21.1.2021.31160>.
- Rossi, E., Hanzah, F., dan Febriyani. 2016. Perbandingan Susu Kambing dan Susu Kedelai dalam Pembuatan Kefir. *Jurnal Peternakan Indonesia*, 18(1): 13-20.
- Safitri, M. F., dan Swarastuti, A. 2013. Kualitas kefir berdasarkan konsentrasi kefir grain. *Jurnal Aplikasi Teknologi Pangan*, 2(2): 87-92.
- Setyawardani, T., Sumarmono, J., Rahardjo, A. H. D., Sulistyowati, M., dan Widayaka, K. 2017. Kualitas kimia, fisik, dan sensori kefir susu kambing yang disimpan pada suhu dan lama penyimpanan berbeda. *Buletin Peternakan*, 41(3): 298-306. DOI: 10.21059/buletinpeternak.v41i3.18266.

- Smid, E.J., dan Hugenholtz, J. 2010. Functional genomics for food fermentation process. *Annual Review in Food Science and Technology*, 1: 497-519.
- Sulmiyati, Said, N. S., Fahrodi, D. U., Malaka, R., dan Maruddin, F. 2019. The physicochemical, microbiology, and sensory characteristics of kefir goat milk with different levels of kefir grain. *Tropical Animal Science Journal*, 42(2): 152-158. DOI: <https://doi.org/10.5398/tasj.2019.42.2.152>.
- Supriyono, T., Murwani, R., dan Nurrahman. 2014. Kandungan beta karoten, polifenol total, dan aktivitas “merantas” radikal bebas kefir susu kacang hijau (*Vigna radiata*) oleh pengaruh jumlah starter (*Lactobacillus bulgaricus* dan *Candida kefir*) dan konsentrasi glukosa. *Jurnal Gizi Indonesia*, 2(2): 65-71.
- Surja, L.L., Dwiloka, B., dan Rizqiati, H., 2019. Effect of high fructose syrup (HFS) addition on chemical and organoleptic properties of green coconut water kefir. *Journal of Applied Food Technology*, 6(1): 3-8. DOI: 10.17728/jaft.4189.
- Surono, I. S. 2016. “Probiotik, mikrobiome, dan pangan fungsional”. Deepublish, Yogyakarta.
- Syalom, 2020. Pengaruh konsentrasi mesokarp semangka terhadap karakteristik fisikokimia dan mikrobiologi *water kefir* semangka kuning (*Citrullus lanatus* (Thunb.)) *Jurnal Ilmu dan Teknologi Pangan*, 6(2): 719-728.
- Tenea, G.N., dan Suarez, J. 2020. Probiotic potential and technological properties of bacteriocinogenic *Lactococcus lactis* Subsp. *Lactis* UTNGt28 from a native amazonian fruit as a yogurt starter culture. *Microorganisms*, 8: 733-747. DOI: <https://doi.org/10.3390/microorganisms8050733>.
- Triwibowo, B., Wicaksono, R., Antika, Y., Ermi, S., Jarmiati, A., Setiadi, A. A., dan Syahriar, R. 2019. The effect of kefir grain concentration and fermentation duration of cow-milk based kefir. *Journal of Physics: Conference Series*. DOI:10.1088/1742-6596/1444/1/012001.
- Widowati, T. W., Hamzah, B., Wijaya, A., dan Pambayun, R. 2014. Sifat antagonistik *Lactobacillus* sp B441 dan II442 asal tempoyak terhadap *Staphylococcus aureus*. *Agritech*, 34(4): 430-438. DOI: <https://doi.org/10.22146/agritech.9438>.

Yang, E., Fan, L., Yan, J., Jiang, Y., Doucette, C., Fillmore, S., dan Walker, B. 2018. Influence of culture media, pH and temperature on growth and bacteriocin production of bacteriocinogenic lactic acid bacteria. *AMB Express*, 8(10): 1-14. DOI: 10.1186/s13568-018-0536-0.

Yildiz, F. 2010. *Development and Manufacture of Yoghurt and Other Functional Dairy Products*. CRC Press, Florida.

Yong, J. W. H., Ge, L., Ng, Y. F., dan Tan, S. N. 2009. The chemical composition and biological properties of coconut (*Cocos nucifera* L.) water. *Molecules*, 14 (12): 5144-5164. DOI:10.3390/molecules14125144.

Yusriah, N. H., dan Agustini, R. 2014. Pengaruh waktu fermentasi dan konsentrasi bibit kefir terhadap mutu kefir susu sapi. *UNESA Journal Chemistry*, 3(2): 53-57.

