



DAFTAR PUSTAKA

- Adkhayati, M. Dwi., 2017. *Pengaruh Konsentrasi Ekstrak Kecambah, Ekstrak Tomat, dan Air Kelapa dalam Media Halal Terhadap Pertumbuhan Lactobacillus plantarum Dad 13*. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Andualem, B. & Gessesse, A., 2013. Production of microbial medium from defatted brebra (*Milletia ferruginea*) seed flour to substitute commercial peptone agar. *Asian Pacific Journal of Tropical Biomedicine*, 3 (10): 790–797.
- Aris, S. E., Jumiono, A., dan Akil, S., 2020. Identifikasi Titik Kritis Kehalalan Gelatin. *Jurnal Pangan Halal*, 2(1): 17-22.
- Asiah, N., Cempaka, L., dan David, W., 2018. *Panduan Praktis Pendugaan Umur Simpan Produk Pangan*. UB Press. Jakarta Selatan.
- Aspmo, S. I., Horn, S. J., & H. Eijsink, V. G., 2005. Enzymatic hydrolysis of Atlantic cod (*Gadus morhua L.*) viscera. *Process Biochemistry*, 40(5): 1957–1966.
- Astuti, W., 2017. *Pengaruh Penambahan Ekstrak Kasar Enzim Bromelin terhadap Kadar Protein, Kadar Albumin dan Organoleptik Minuman Sari Ikan Gabus (*Ophiocephalus striatus*)*. Skripsi. Malang: Fakultas Perikanan dan Ilmu Kelautan.
- Badan Standardisasi Nasional, 2008. SNI 3547-2-2008 Kembang Gula Bagian 2: Lunak. Badan Standardisasi Nasional. Jakarta.
- Bartkiene, E., Ruzauskas, M., Lele, V., Zavistanaviciute, P., Bernatoniene, J., Jakstas, V., Ivanauskas, L., Zadeike, D., Klupsaite, D., Viskelis, P., Bendoraitiene, J., Navikaite-Snipaitiene, V. and Juodeikiene, G., 2018. Development of antimicrobial gummy candies with addition of bovine colostrum, essential oils and probiotics. *International Journal of Food Science and Technology*, 53(5): 1227–1235.
- Belitz, H.D., Grosch, W. & Schieberle, P., 2009. Springer Food chemistry 4th revised and extended edition. *Annual Review Biochemistry*, 79: 655-681.



- Buckle, K. A., R. A. Edwards, G. H. Fleet, dan M. Wooton., 1987. *Ilmu Pangan*.
Penerjemah Hari Purnomo dan Adiono. UI Press. Jakarta.
- Calligaris, S., Manzocco, L., Anese, M., & Nicoli, M. C., 2019. Accelerated shelf life testing. In *Food Quality and Shelf Life*. Elsevier Inc. pp. 359-392.
- Calvarro, J., Perez-Palacios, T., & Ruiz, J., 2016. Modification of gelatin functionality for culinary applications by using transglutaminase. *International Journal of Gastronomy and Food Science*, 5: 27–32.
- Celik, O. F., and O'Sullivan, D. J., 2013. Factors Influencing the Stability of Freeze-Dried Stress-Resilient and Stress-Sensitive Strains of Bifidobacteria. *Journal of Dairy Science*, 96(6): 3506 – 3516.
- Cielecka-Piontek, J., Dziedziński, M., Szczepaniak, O., Kobus-Cisowska, J., Telichowska, A., & Szymanowska, D., 2020. Survival of commercial probiotic strains and their effect on dark chocolate synbiotic snack with raspberry content during the storage and after simulated digestion. *Electronic Journal of Biotechnology*, 48: 62–71.
- Dave, R. I., & Shah, N. P., 1997. Viability of yoghurt and probiotic bacteria in yoghurts made from commercial starter cultures. *International Dairy Journal*, 7(1): 31–41.
- Deki, I., 2010. *Optimasi Formula Permen Jelly Rumput Laut (Kappaphycus alvarezii) dan Pendugaan Umur Simpannya dengan Model Pendekatan Kadar Air Kritis yang Dimodifikasi*. Skripsi. Bogor: Fakultas Perikanan dan Ilmu Kelautan.
- De Vos P, Garrity M G, Jones D, Krieg N, Ludwig W, Rainey A, Scleifer H Karl, Witman W. 2009. *Bergey's Manual of Systematic Bacteria Second Edition*. Springer Dordrecht Heidelberg. London New York.
- Ergun, R., Lietha, R. and Hartel, R.W., 2010. Moisture and shelf life in sugar confections. *Critical Reviews in Food Science and Nutrition*, 50(2): 162–192.
- European Food Safety Authority (EFSA)., 2012. Guidance on the Assessment of Bacterial Susceptibility to Antimicrobials of Human and Veterinary Importance. *EFSA Journal*, 10(6): 1-10.



Fadhila, Fida Hasna, 2020. *Tingkat Pengetahuan Masyarakat terhadap Produk Probiotik dan Karakter Jelly candy Probiotik Lactobacillus plantarum Dad-13 Selama Penyimpanan*. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.

Fang, I.-J., & Trewyn, B. G., 2012. *Application of Mesoporous Silica Nanoparticles in Intracellular Delivery of Molecules and Proteins. Nanomedicine - Cancer, Diabetes, and Cardiovascular, Central Nervous System, Pulmonary and Inflammatory Diseases*, 41–59.

FAO/WHO, 2001. *Evaluation of Health and Nutritional Properties of Probiotics in Food Including Powder Milk with Live Acid Bacteria*. Report of a Joint FAO/WHO Expert Consultation. Cordoba, Argentina. October 1-4, 2001.

FAO/WHO, 2002. *Guidelines for The Evaluation of Probiotics in Food*. Report of a Joint FAO/WHO Working Group on Drafting Guidelines for the Evaluation of Probiotics in Food. London, Ontario, Canada. April 20 and May 1, 2002.

Fenster, K., Freeburg, B., Hollard, C., Wong, C., Laursen, R. R., & Ouwehand, A. C., 2019. The Production and Delivery of Probiotics: A Review of a Practical Approach. 1–17.

Fitriyani, E., Nuraenah, N., dan Deviarni, I. M., 2020. Perbandingan Komposisi Kimia, Asam Lemak, Asam Amino Ikan Toman (*Channa micropeltes*) dan Ikan Gabus (*Channa Striata*) dari Perairan Kalimantan Barat. *Marine, Environment, and Fisheries Journal*, 1(2): 71-82.

Fitrotin., U., Utami, T., Hastuti, P., and Santosa, U., 2015. Antioxidant properties of fermented sesame milk using Lactobacillus plantarum Dad 13. *International Research Journal of Biological Sciences*, 4(6): 56 -61.

Gackowska, L., Michalkiewics, J., Krotkiewski, M., Helmin, B. A, Kubiszewska, I. dan Dzierzanowska, D., 2006. Combined Effect of Different Lactic Acid Bacteria Strain on the Mode of Cytokines Pattern Expression in Human Periperal Blood Monoclearcells. *Journal of Physiology and Pharmacology*, 57 (9): 13-21.



- Garrido, J. I., Lozano, J. E., & Genovese, D. B., 2014. Effect of formulation variables on rheology, texture, colour, and acceptability of apple jelly: Modelling and optimization. *LWT - Food Science and Technology*, 1–8.
- Gelatin Manufacturer Institute of America (GMIA), 2012. *Gelatin HandBook*. America.
- Gnanasekharan V, DF John, 1993. *Shelf-Life Prediction of Packaged Food. Shelf-Life Studies of Food and Beverages*. Charalambous, G (ed) Elsevier. Newyork.
- Harijono., J, Kusnadi., dan S.A. Mustikasari, 2001. Pengaruh Kadar Karagenan dan Total Padatan Terlarut Sari Buah Apel Muda Terhadap Aspek Kualitas Permen Jelly. *Jurnal Teknologi Pertanian*, 7(2): 55-75.
- Harzallah, D., & Belhadj, H., 2013. Lactic Acid Bacteria as Probiotics: Characteristics, Selection Criteria and Role in Immunomodulation of Human GI Mucosal Barrier. *Lactic Acid Bacteria - R & D for Food, Health and Livestock Purposes*.
- Hayek, S. A., dan Ibrahim, S. A., 2013. Current Limitation and Challenges with Lactic Acid Bacteria: A Review. *Food and Nutrition Science*, 4(11): 73-87.
- Huda, L. F., 2021. *Pendugaan Umur Simpan dan Analisis Cemaran Mikrobiologis pada Snack Bar Bersalut Cokelat Probiotik Lactobacillus plantarum Dad-13 dengan Substitusi Isomalt*. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian.
- Hentges, D. J., 2021. *Anaerobes: General Characteristics*. Nih.gov; University of Texas Medical Branch at Galveston.
<https://www.ncbi.nlm.nih.gov/books/NBK7638/>
- Jarque, S., Bittner, M., & Hilscherová, K., 2016. Freeze-drying as suitable method to achieve ready-to-use yeast biosensors for androgenic and estrogenic compounds. *Chemosphere*, 148: 204–210.
- Jiamjariyatam, R., 2018. Influence of gelatin and isomaltulose on gummy jelly properties. *International Food Research Journal*, 25(2): 776-783.



- Kandil, S. dan El Soda, M., 2015. Influence of Freezing and Freeze Drying on Intracellular Enzymatic Activity and Autolytic Properties of Some Lactic Acid Bacterial Strains. *Advances in Microbiology*, 5: 371 – 382.
- Kek, S. P., Chin, N. L., & Yusof, Y. A., 2013. Direct and indirect power ultrasound assisted pre-osmotic treatments in convective drying of guava slices. *Food and Bioproducts Processing*, 91(4): 495–506.
- King, K. Y., Horenstein, J. A., & Caparon, M. G., 2000. Aerotolerance and Peroxide Resistance in Peroxidase and PerR Mutants of *Streptococcus pyogenes*. *Journal of Bacteriology*, 182(19): 5290–5299.
- Kreungngern, D., & Chaikhamp, P., 2016. Rheological, physical and sensory attributes of *Chao Kuay* jelly added with gelling agents. *International Food Research Journal*, 23(4): 1474–1478.
- Kurniadi, M., & Frediansyah, A., 2017. Halal Perspective of Microbial Bioprocess Based-Food Products. *Reaktor*, 16(3): 147 – 160.
- Lahtinen, S. J., 2012. Probiotic viability – does it matter? *Microbial Ecology in Health & Disease*, 23(0): 10–14.
- Lele, V., Ruzauskas, M., Zavistanaviciute, P., Laurasiene, R., Rimene, G., Kiudulaite, D., Tomkeviciute, J., Nemeikstyte, J., Stankevicius, R. and Bartkiene, E., 2018. Development and characterization of the gummy-supplements, enriched with probiotics and prebiotics. CYTA - *Journal of Food*, 16(1): 580–587.
- Leroy, F., & De Vuyst, L., 2004. Lactic acid bacteria as functional starter cultures for the food fermentation industry. *Trends in Food Science & Technology*, 15(2): 67–78.
- Lesmana, S. N., Putut, T. I., dan Kusumawati, N., 2008. Pengaruh Penambahan Kalsium Karbonat sebagai Fortifikasi Kalsium terhadap Sifat Fisikokimia dan Organoleptik Permen Jeli Susu. *Jurnal Teknologi Pangan dan Gizi*, 7(1): 28–39.
- Leviana, W., dan Paramita, V., 2017. Pengaruh Suhu terhadap Kadar Air dan Aktivitas Air dalam Bahan pada Kunyit (*Curcuma Longa*) dengan Alat Pengering Electrical Oven. *Metana*, 13(2): 37-44.



- Li, X. Y., Chen, X. G., Cha, D. S., Park, H. J. & Liu, C. S., 2009. Microencapsulation of a Probiotic Bacteria with Alginate-Gelatin and Its Properties. *Journal of Microen-capsulation*, 26: 315-324.
- Li, B., F. Tian, X. Liu, J. Zhao, H. Zhang, and W. Chen., 2011. Effects of cryoprotectants on viability of *Lactobacillus reuteri* CICC6226. *Applied Microbiology and Biotechnology*, 92(3): 609–616.
- Lian, F., Zhao, W., Yang, R., Tang, Y., & Katiyo, W., 2015. Survival of *Salmonella enteric* in skim milk powder with different water activity and water mobility. *Food Control*, 47: 1–6.
- Liu, Y. -X., Cao, M. -J., and Liu, G. -M., 2019. Texture Analyzer for Food Quality Evaluation. *Evaluation Technologies for Food Quality*, 441-463.
- Maiyena, S., dan Mawarnis, E. R., 2022. Kajian Analisis Konsumsi Daging Sapi dan Daging Babi Ditinjau dari Kesehatan. *Jurnal Pendidikan Tambusai*, 6(1): 3131-3136.
- Man, Dominic, 2002. *Food Industry Briefing Series: Shelf Life*. Principal Lecturer in Food Sciences at the School of Applied Science, South Bank University, London.
- Martins, E., Cnossen, D. C., Silva, C. R. J., Cezarino, J. C., Nero, L. A., Perrone, I. T., & Carvalho, A. F., 2019. Determination of ideal water activity and powder temperature after spray drying to reduce *Lactococcus lactis* cell viability loss. *Journal of Dairy Science*, 102(7): 6013–6022.
- Maturin, L. & Peeler, J. T., 2001. FDA BAM. [Online] Available at: <https://www.fda.gov/food/laboratory-methods-food/bamchapter-3-aerobic-plate-count>. Diakses pada 20 Desember 2022.
- Meybodi, N. M., and Mortazavian A. M., 2017. Probiotic Supplements and Food Products: A Comparative Approach. *Biochemistry & Pharmacology*, 6(2): 1-7.
- Min, M., Bunt, C. R., Mason, S. L., & Hussain, M. A., 2018. Non-dairy probiotic food products: An emerging group of functional foods. *Critical Reviews in Food Science and Nutrition*, 1–16.



- Mizrahi, S., 2011. Accelerated shelf-life testing of foods. In *Food and Beverage Stability and Shelf Life*. Woodhead Publishing Limited. <https://doi.org/10.1533/9780857092540.2.482>.
- Moretro, T., Hagen, B. F., and Axeisson, L., 1998. A New, Completely Defined Medium for Meat Lactobacilli. *Journal of Applied Microbiology*, 85: 715-722.
- Mutlu, C., Tontul, S. A., & Erbaş, M., 2018. Production of a minimally processed *jelly candy* for children using honey instead of sugar. *LWT – Food Science and Technology*, 93: 499–505.
- Ngatirah, Hermayani, E., Rahayu, E. S., dan Utami, T., 2000. *Seleksi Bakteri Asam Laktat sebagai Agensia Probiotik yang Berpotensi Menurunkan Kolesterol*. Prosiding Seminar Nasional Industri Pangan, 2: 63-70.
- Niga, M. I. B., Suptijah, P., dan Trilaksani, W., 2022. Isolasi dan Karakterisasi Ekstrak Tepung Ikan Gabus dan Potensinya sebagai Imunomodulator. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 25(1): 52-66.
- Nuraida, Lilis, 2015. A review: Health promoting lactic acid bacteria in traditional Indonesian fermented foods. *Food Science and Human Wellness*, 4(2): 47–55.
- Nurilmala, M., Safithri, M., Pradita, F. T., dan Pertiwi, R. M., 2020. Profil Protein Ikan Gabus (*Channa striata*), Toman (*Channa micropeltes*), dan Betutu (*Oxyeleotris marmorata*). *Jurnal Pengolahan Hasil Perikanan Indonesia*, 23 (3): 548 – 557.
- Pang, Z., Deeth, H., Sharma, R. and Bansal, N., 2015. Effect of addition of gelatine on the rheological and microstructural properties of acid milk protein gels. *Food Hydrocolloids*, 43: 340–351.
- Parada, J. L., Caron, C. R., Medeiros, A. B. P., & Soccol, C. R., 2007. Bacteriocins from lactic acid bacteria: purification, properties and use as biopreservatives. *Brazilian Archives of Biology and Technology*, 50(3): 512–542.
- Pratomo, M. D., Wardani, D. W., Revonagara, N. A., dan Jaziri, A. A., 2019. *Karakteristik Pepton sebagai Media Pertumbuhan Bakteri yang Terjamin*



Halal dari Limbah Kurisi (Nemipterus sp.). Seminar Nasional Kelautan XIV, pp. 1-9.

- Purwanti, T., Pustipa, R., dan Erawati, T., 2019. Pengaruh Matriks Kombinasi Alginat:Gelatin (2%:1%) terhadap Karakteristik dan Aktivitas Antibakteri Mikrosfer Probiotik *Lactobacillus acidophilus*. *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*, 6(1): 44-50.
- Rachmasari, Angela Dea, 2020. *Kualitas Mikrobiologis pada Produk Jelly candy Probiotik Lactobacillus plantarum Dad-13*. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Rahayu, E. S., 2003. Lactic Acid Bacteria in Fermented Foods of Indonesian Origin. *Agritech*, 23: 75 – 84.
- Rahayu, E. S., Yogeswara, A., Mariyatun, Windiarti, L., Utami, T., dan Watanabe, K., 2015. Molecular Characteristics of Indigenous Probiotic Strains from Indonesia. *International Journal of Probiotics and Prebiotics*, 10(4): 109-116.
- Rahayu, E. S. & Utami, T., 2019. *Probiotik dan Gut Microbiota serta Manfaatnya pada Kesehatan*. PT Kanisius. Sleman.
- Ray, Bibek, 2004. *Fundamental Food Microbiology 3rd Edition*. CRC Press. New York.
- Renitha, T. S., Sridevi, J., Gowthaman, M. K., Kamini, N. R., Ramanaiah, B., & Saravanan, P., 2015. Wealth from waste – beef extract for microbiological media from tannery solid waste. *RSC Advances*, 5(13): 9891–9897.
- Rerksuppaphol, S., & Rerksuppaphol, L., 2010. *Lactobacillus acidophilus* and *Bifidobacterium bifidum* stored at ambient temperature are effective in the treatment of acute diarrhoea. *Annals of Tropical Paediatrics*, 30(4): 299–304.
- Rohmah, Mu'tamar, M. F. F., dan Purwandari, U., 2018. Analisis Sifat Fisik Daging Sapi Terdampak Lama Perendaman dan Konsentrasi Kenikir (*Cosmos caudatus kunth*). *Agrointek*, 12(1): 51-54.
- Safitri, N., Sunarti, T. C., dan Meryandini, A., 2016. Formula Media Pertumbuhan Bakteri Asam Laktat *Pediococcus pentosaceus* Menggunakan Substrat Whey Tahu. *Jurnal Sumberdaya Hayati*, 2(2): 31-38.



Sahubawa, L. dan Ustadi, 2014 *Teknologi Pengawetan dan Pengolahan Hasil Perikanan*. UGM Press. Yogyakarta.

Santivarangkna, C., Kulozik, U., & Foerst, P., 2008. Inactivation mechanisms of lactic acid starter cultures preserved by drying processes. *Journal of Applied Microbiology*, 105(1): 1–13.

Sawitri, M. E., Manab, A., dan T.W.L. Palupi, 2008. Kajian Penambahan Gelatin terhadap Keasaman, pH, Daya Ikat Air dan Sineresis Yogurt. *Jurnal Ilmu dan Teknologi Hasil Ternak*, 3(1): 35-42.

Setijawati, D., Jaziri, A. A., Yufidasari, H. S., Wardani, D. W., Pratomo, M. D., Ersyah, D., dan Huda, N., 2019. Characteristics of Peptone from the Mackerel, *Scomber japonicus* Head By-Product as Bacterial Growth Media. *Bioscience Biotechnology Research Communications*, 12(4): 829-836.

Setijawati, D., Jaziri, A. A., Yufidasari, H. S., Pratomo, M. D., Wardani, D. W., Ersyah, D., dan Huda, N., 2020. Characteristics and Use of Peptones from Catfish (*Clarias gariepinus*) and Pangas Catfish (*Pangasius pangasius*) Heads as Bacterial Growth Media. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*, 15(1): 19-29.

Stanton, C., Fitzgerald, G., Paul Ross, R., Desmond, C., Coakley, M., & Kevin Collins, J., 2003. Challenges Facing Development of Probiotic-Containing Functional Foods. *Functional Foods and Nutraceuticals*, pp. 27–58.

Stefanello, R. F., Nabeshima, E. H., Iamanaka, B. T., Ludwig, A., Fries, L. L. M., Bernardi, A. O., & Copetti, M. V., 2019. Survival and stability of *Lactobacillus fermentum* and *Wickerhamomyces anomalus* strains upon lyophilisation with different cryoprotectant agents. *Food Research International*, pp. 90 – 94.

Subagyo, W. C., Suwiti, N. K., dan Suarsana, I N., 2015. Karakteristik Protein Daging Sapi Bali dan Wagyu setelah Direbus. *Buletin Veteriner Udayana*, 7(1): 17-25.

Sumaryati, B. T., Utami, T., Suparmo, 2009. Effect of infection of *Escherichia coli* and addition of *Lactobacillus plantarum* Dad 13 to fecal microbiota of Wistar rat. *Agritech*, 29(1): 165 -170.



- Suptijah, P., Suseno, S. H., dan Anwar, C., 2013. Analisis Kekuatan Gel (*Gel Strength*) Produk Permen Jelly dari Gelatin Kulit Ikan Cucut dengan Penambahan Karaginan dan Rumput Laut. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 16 (2): 183-191.
- Surono, I.S., 2004. *Probiotik Susu Fermentasi dan Kesehatan. Yayasan Pengusaha Makanan dan Minuman Seluruh Indonesia*. YAPMMI. Jakarta.
- Suryani, R., 2022. *Pemanfaatan Ampas Ikan Gabus sebagai Sumber Pepton untuk Media Pertumbuhan *Lactiplantibacillus plantarum* subsp. *plantarum** Dad-13. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Suwandi, R., Nurjanah, dan Winem, M., 2014. Proporsi Bagian Tubuh dan Kadar Proksimat Ikan Gabus pada Berbagai Ukuran. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 17(1): 22 – 28.
- Tiopan, Ricardo Christian, 2021. *Pengaruh Variasi Penambahan Bubuk Spirulina (*Arthrospira plantesis*) terhadap Karakteristik Sensoris, Kimia, Aktivitas Antioksidan, dan Viabilitas Sel Jelly candy Probiotik*. Skripsi. Yogyakarta: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Ullah, F., Othman, M.B.H., Javed, F., Ahmad, Z. and Akil, H. M., 2015. Classification, processing, and application of hydrogels: A review. *Materials Science and Engineering C*, 57: 414–433.
- Utami, T., Kasmiati, Harmayani, E. dan Rahayu, E.S., 2009. *Influence of bile on lactobacilli viability and ability to reduce lactose in MRS broth*. Prosiding Seminar Lactic acid Bacteri and Culture Collection.Yogyakarta, 16-17 Januari 2009.
- Utami, T., Kusuma, E. N., Satiti, R., Rahayu, E. S., dan Cahyanto, M. N., 2019. Hydrolyses of Meat and Soybean Proteins using Crude Bromelain to Produce *Halal* Peptone as a Complex Nitrogen Source for Growth of Lactic Acid Bacteria. *International Food Research Journal*, 26(1): 117-122.
- Utami, T., Cindarbhumi, A., Khuangga, M. C., Rahayu, E. S., Cahyanto, M. N., Nurfiyani, S., dan Zulaichah, E., 2020. Preparation of Indigenous Lactic Acid Bacteria Starter Cultures for Large Scale Production of Fermented Milk. 10th



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Viabilitas Sel dan Umur Simpan Jelly Candy Probiotik yang Diproduksi pada Media Ekstrak Ikan Gabus sebagai Sumber Pepton

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Asian Conference of Lactic Acid Bacteria. *Digital Press Life Sciences 2*,
10:1-7.

Velly, H., Bouix, M., Passot, S., Penicaud, C., Beinsteiner, H., Ghorbal, S., ...

Fonseca, F., 2014. Cyclopropanation of unsaturated fatty acids and membrane rigidification improve the freeze-drying resistance of *Lactococcus lactis* subsp. *lactis* TOMSC161. *Applied Microbiology and Biotechnology*, 99(2): 907–918.

Wang, G. -Q., Pu, J., Yu, X. -Q., Xia, Y. -J., dan Ai, L. -Z., 2020. Influence of Freezing Temperature Before Freeze-Drying on The Viability of Various *Lactobacillus plantarum* strains. *Journal of Dairy Science*, 103(4): 3066 – 3075.

Yonejima, Y., Hisa, K., Kawaguchi, M., Ashitani, H., Koyama, T., Usamikrank, Y., Kishida, N., Kishino, S., & Ogawa, J., 2015. Lactic acid bacteria-containing chocolate as a practical probiotic product with increased acid tolerance. *Biocatalysis and Agricultural Biotechnology*, 4(4): 773–777.

Yusof, N., Jaswir, I., Jamal, P., and Jami, M. S. 2019. Texture Profile Analysis (TPA) of The Jelly Dessert Prepared from Halal Gelatin Extracted Using High Pressure Processing (HPP). *Malaysian Journal of Fundamental and Applied Sciences*, 15(4): 604 – 608.