

## DAFTAR PUSTAKA

- Abdolghafour, B. dan Saghir, A. 2014. Development in sausage production and practices- A review. *Journal of Meat Science and Technology* 2(3): 40-50.
- Abebe, E., Gugsa, G., dan Ahmed, M. 2020. Review on major food-borne zoonotic bacterial pathogens. *Journal of Tropical Medicine* 2020: 1-19.
- Allende, A., Bolton, D., Chemaly, M., Davies, R., Escamez, P. S. F., Girones, R., Herman, L., Koutsoumanis, K., Lindqvist, R., Norrung, B., Ricci, A., Robertson, L., Ru, G., Sanaa, M., Simmons, M., Skandamis, P., Snary, E., Speybroeck, N., Ter Kuile, B., Threlfall, J., Wahlstrom, H. 2016. Growth of spoilage bacteria during storage and transport of meat. *European Food Safety Authority Journal* 14(6).
- Amelia, S., Lubis, N. D. A., Balatif, R., Rozi, M. F., dan Sidhi, S. P. 2020. Antibacterial effect of andaliman (*Zanthoxylum acanthopodium*) against contaminant in raw common carp (*Cyprinus carpio* Linnaeus). *IOP Conf. Series: Earth and Environmental Science* 425(2020): 1-5.
- Anggraeni, R. 2019. Uji karakteristik simplisia buah andaliman (*Zanthoxylum acanthopodium* DC.). *Jurnal Ilmiah Farmasi Imelda* 3(2): 34-40.
- Badan Standardisasi Nasional. 2015. *SNI 3820:2015 Sosis Daging*. Badan Standardisasi Nasional, Jakarta.
- Balamurugan, S., Inmanee, P., de Souza, J., Strange, P., Pirak, T., dan Barbut, S. 2018. Effects of high pressure processing and hot water pasteurization of cooked sausages on inactivation of inoculated *Listeria monocytogenes*, natural populations of lactic acid bacteria, *Pseudomonas* spp., and coliforms and their recovery during storage at 4 and 10°C. *Journal of Food Protection* 81(8): 1245-1251.
- Bigolin, J., Weber, C. I., dan Alfaro, A. T. 2013. Lipid oxidation in mechanically deboned chicken meat: effect of the addition of different agents. *Food and Nutrition Sciences* 4(8): 219-223.
- Brown, A. 2015. *Understanding Food: Principles and Preparation*. Cengage Learning, Stamford.
- Chanshotikul, N. dan Hemung, B. 2020. Natural curing of fermented sausage using vegetable powders. *Asia-Pacific Journal of Science and Technology* 25(2): 1-7.

- Coggins, P. C. dan Chamul, R. S. 2006. "Food Sensory Attributes". Di *Handbook of Food Science, Technology, and Engineering, Volume 2*. Disunting oleh Hui, Y. H. CRC Press, Boca Raton.
- Collins, D. S. dan Huey, R. J. *Gracey's Meat Hygiene, 11<sup>th</sup> Edition*. Wiley-Blackwell, Oxford.
- Dziezak, J. D. 2003. "Acids: Properties and Determination". Di *Encyclopedia of Food Science and Nutrition*. Disunting oleh Caballero, B. Academic Press, Massachusetts.
- Ganzle, M. G. 2015. Lactic metabolism revisited: metabolism of lactic acid bacteria in food fermentations and food spoilage. *Current Opinion in Food Science* 2(2015): 106-117.
- Gungor, E. dan Gokoglu, N. 2010. Determination of microbial contamination sources at a Frankfurter sausage processing line. *Turkish Journal of Veterinary and Animal Science* 34(1): 53-59.
- Hartati, A., Mulyani, S., dan Pušparini, N. M. D. 2009. Pengaruh preparasi bahan baku rosella dan waktu pemasakan terhadap aktivitas antioksidan sirup bunga rosella (*Hibiscus sabdariffa* L.). *Agrotekno* 15(1): 20-24.
- Hasnudi, Mirwandhono, R. E., dan Siregar, G. A. W. 2019. Addition of andaliman to shelf life of beef nugget. *IOP Conf. Series: Earth and Environmental Science* 260(2019).
- Iscan, G. 2017. Antibacterial and anticandidal activities of common essential oil constituents. *Records of Natura Products* 11(4): 374-388.
- Jayathilakan, K., Sultana, K., Radhakrishna, K., dan Bawa, A. S. 2012. Utilization of byproducts and waste materials from meat, poultry and fish processing industries: a review. *Journal of Food Science and Technology* 49(3): 278-293.
- Ji, Y., Li, S., dan Ho, C. 2019. Chemical composition, sensory properties and application of Sichuan pepper (*Zanthoxylum* genus). *Food Science and Human Wellness* 8(2): 115-125.
- Khairunnisyah, A. Y. 2018. Pemanfaatan andaliman (*Zanthoxylum acanthopodium* DC) sebagai tanaman penghasil minyak atsiri. *Jurnal Kultivasi* 17(1): 537-543.

- Khorsandi, A., Eskandari, M. H., Aminlari, M., Shekarforoush, S. S., Golmakani, M. T. 2019. Shelf-life extension of vacuum packed emulsion-type sausage using combination of natural antimicrobials. *Food Control* 104(2019): 139-146.
- King, N. J. dan Whyte, R. 2006. Does it look cooked? A review of factors that influence cooked meat color. *Journal of Food Science* 71(4): 31-40.
- Knipe, L. 2003. "Emulsifiers". Di *Encyclopedia of Food Science and Nutrition*. Disunting oleh Caballero, B. Academic Press, Massachusetts.
- Kondratenko, V. V., Levshenko, M. T., Petrov, A. N., Pozdnyakova, T. A., dan Trishkaneva M. V. 2019. Comparative evaluation of approaches to modeling kinetics of microbial thermal death as in the case of *Alicyclobacillus acidoterrestris*. *Foods and Raw Materials* 7(2): 348-363.
- Lee, N., Kwak, H. S., Joo, J., Kang, J., dan Lee, Y. 2018. Effects of partial replacement of pork meat with chicken or duck meat on the texture, flavor, and consumer acceptance of sausage. *Journal of Food Quality* 2018: 1-9.
- Lim, J. 2011. Hedonic scaling: a review of methods and theory. *Food Quality and Preference* 22(2011): 733-747.
- Lonergan, S. M, Topel, D. G., dan Marple, D. N. 2019. *The Science of Animal Growth and Meat Technology: Second Edition*. Academic Press, Camrbidge.
- Lopez-Malo, A., Alzamora, S. M., Paris, M. J., Lastra-Vargas, L., Coronel, M. B., Gomez, P. L., Palou, E. 2020. "Naturally Occuring Compounds – Plant Sources". Di *Antimicrbials in Food*. Disunting oleh Davidson, P, M., Taylor, T. M., dan David, J. R. D. CRC Press, Boca Raton.
- Lopez, F. L., Bowles, A., Gul, M. O., Clapham, D., Ernest, T. B., Tuleu, C. 2016. Effect of formulation variables on oral grittiness and preferences of multiparticulate formulations in adult volunteers. *European Journal of Pharmaceutical Sciences* 92(2016): 156-162.
- Mach, N., Bach, A., Velarde, A., dan Devant, M. 2008. Association between animal, transportation, slaughterhouse practices, and meat pH in beef. *Meat Science* 78(3): 232-238.
- Marshall, W. D. 2003. "Analysis of Pesticide, Mycotoxin, and Drug Residues in Foods". Di *Food Analysis*. Disunting oleh Nielsen, S. S. Kluwer Academic, New York.

- Martins, A. P., Martins, H. H. A., Isidoro, S. R., Alcantara, J. P., Ramos, E. M., Piccoli, R. H. 2019. Changes in the quality of sliced mortadella sausages prepared using chitosan. *Journal of Food Safety* 39(4): 1-8.
- Maturin, L. dan Peeler, J. T. 2001. “BAM Chapter 3: Aerobic Plate Count,” US Food & Drug Administration, diakses 11 November 2020. [fda.gov/food/laboratory-methods-food/bam-chapter-3-aerobic-plate-count#r10-Zipkes](https://fda.gov/food/laboratory-methods-food/bam-chapter-3-aerobic-plate-count#r10-Zipkes).
- McLean, B. D. 2003. “Meat Analysis”. Di *Encyclopedia of Food Sciences and Nutrition*. Disunting oleh Caballero, B. Academic Press, Massachusetts.
- Mokoena, M. P. 2017. Lactic acid bacteria and their bacteriocins: classification, biosynthesis and applications against uropathogens: a mini-review. *Molecules* 22(8): 1255.
- Moskowitz, H. R., Beckley, J. H., dan Resurreccion, A. V. A. 2012. *Sensory and Consumer Research in Food Product Design and Development*. Wiley-Blackwell, Oxford.
- Muazu, J., Musa, H., Isah, A. B., Bhatia, P. G., dan Tom, G. M. 2011. Extraction and characterization of kaffir potato starch: a potential source of pharmaceutical raw material. *Journal of Natural Product Plant Resource* 1(2): 41-49.
- Muzafri, A., Julianti, E., dan Rusmarilin, H. 2018. The extraction of antimicrobials component of andaliman (*Zanthoxylum acanthopodium* DC.) and its application on catfish (*Pangasius sutchi*) fillet. *IOP Conf. Series: Earth and Environmental Science* 122(2018)
- Muzafri, A. 2019. Uji aktivitas antimikroba ekstrak andaliman (*Zanthoxylum acanthopodium* DC.) pada *Staphylococcus aureus*. *Jurnal Sungkai* 7(1): 122-126.
- Ockerman, H. W. dan Basu, L. 2014. “Sausages, Types Of”. Di *Encyclopedia of Meat Sciences*. Disunting oleh Dikeman, M. dan Devine, C. Academic Press, Massachusetts.
- Oliveira, T. L. C., Carvalho, S. M., Soares, R. A., Adrade, M. A., Cardoso, M. G., Ramos, E. M., dan Piccoli, R. H. 2012. Antioxidant effects of *Satureja montana* L. essential oil on TBARS and color of mortadella-type sausages formulated with different levels of sodium nitrite. *LWT-Food Science and Technology* 45(2): 204-212.

- Owusu-Apenten, R. K. 2004. "Testing Protein Functionality". Di *Proteins in Food Processing*. Disunting oleh Yada, R. Y. Woodhead Publishing, Cambridge.
- Pa, E. T., Sinaga, H., dan Ridwansyah. 2019. The effect of addition of andaliman (*Zanthoxylum acanthopodium* DC) on the quality of andaliman condiment. *IOP Conf. Series: Earth and Environmental Science* 260(2019).
- Palma, M., Barbero, G F., Pineiro, Z., Lizaid, A., Barroso, C. G., Rostagno, M. A., Prado, J. M., dan Meireles, M. A. A. 2013. "Extraction of Natural Products: Principles and Fundamental Aspects". Di *Natural Product Extraction: Principles and Applications*. Disunting oleh Rostagno, M. A. dan Prado, J. M. RSC Publishing, Cambridge.
- Parhusip, A. J. N., Jenie, B. S. L., Rahayu, W. P., dan Yasni, S. 2005. Pengaruh ekstrak andaliman (*Zanthoxylum acanthopodium* DC) terhadap permeabilitas dan hidrofobisitas *Bacillus cereus*. *Jurnal Teknologi dan Industri Pangan* 16(1): 24-30.
- Pereira, A. G. T., Ramos, E. M., Teixeira, J. T., Cardoso, G. P., Ramos, A. L. S., dan Fontes, P. R. 2011. Effects of the addition of mechanically deboned poultry meat and collagen fibers on quality characteristics of frankfurter-type sausages. *Meat Science* 89(4): 519-525.
- Pena-Saldarriaga, L.M., Perez-Alvarez, J. A., dan Fernandez-Lopez, J. 2020. Quality properties of chicken emulsion-type sausages formulated with chicken fatty byproducts. *Foods* 9(507): 1-10.
- Pothakos, V., Samapundo, S., dan Devlieghere, F. 2012. Total mesophilic counts underestimate in many cases the contamination levels of psychrotrophic lactic acid bacteria (LAB) in chilled-stored food products at the end of their shelf-life. *Food Microbiology* 32(2): 437-443.
- Pothakos, V. dan Bjorkroth, J. 2019. "Lactic Acid Bacteria in Food Spoilage". Di *Lactic Acid Bacteria: Microbiological and Functional Aspects*. Disunting oleh Vinderola, G., Ouwehand, A. C., Salminen, S., dan von Wright, A. CRC Press, Boca Raton.
- Purba, M., Laconi, E. B., Ketaren, P. P., Wijaya, C. H., dan Hardjosworo, P. S. 2009. Kualitas sensori dan komposisi asam lemak daging itik lokal jantan dengan suplementasi santoquin, vitamin E dan C dalam ransum. *JITV* 18(1): 42-53.
- Qin, H., Gong, S. S., Ge, X. Y., dan Zhang, W. G. 2012. The effect of temperature on L-lactic acid production and metabolite distribution of *Lactobacillus casei*. *Prep Biochem Biotechnol.* 42(6): 564-573.

- Raja, R. N. L., dan Hartana, A. 2017. Variasi morfologi andaliman (*Zanthoxylum acanthopodium*) di Sumatra Utara. *Floribunda* 5(7): 258-266.
- Rana, V. S. dan Blazquez, M. A. 2008. Terpenoid constituents of *Zanthoxylum acanthopodium* DC. leaves. *Journal of essential oil research* 20(6): 515-516.
- Rienoviar, Heliawati, L., dan Khoiriyah, A. 2019. Aktivitas antioksidan dan identifikasi senyawa aktif dalam ekstrak buah andaliman (*Zanthoxylum acanthopodium* DC.). *Warta IHP* 36(2): 124-130.
- Ruiz-Capillas, C., Herrero, A. M., Tahmouzi, S., Razavi, S. H., Triki, M., Rodriguez-Salas, L., Samcova, K., dan Jimenez-Colmenero, F. 2014. Properties of reformulated hot dog sausage without added nitrites during chilled storage. *Food Science and Technology International* 0(0):1-10.
- Sachindra, N. M., Sakhare, P. Z., Yashoda, K. P., dan Rao, D. N. 2005. Microbial profile of buffalo sausage during processing and storage. *Food Control* 16(1): 31-35.
- Sade, E., Lassila, E., dan Bjorkroth, J. 2016. Lactic acid bacteria in dried vegetables and spices. *Food Microbiology* 53-B: 110-114.
- Saragih, D. E., dan Arsita, E. V. 2019. Kandungan fitokimia *Zanthoxylum acanthopodium* dan potensinya sebagai tanaman obat di wilayah Toba Samosir dan Tapanuli Utara, Sumatera Utara. *Prosiding Seminar Nasional Masyarakat Biodiversitas Indonesia* 5(1): 71-76.
- Schilling, M. W., Pham, A. J., Williams, J. B., Xiong, Y. L., Dhowlaghar, N., Tolentino, A. C., dan Kin, S. 2018. Changes in the physicochemical, microbial, and sensory characteristics of fresh pork sausage containing rosemary and green tea extracts during retail display. *Meat Science* 143(2018): 199-209.
- Seal, T. 2016. HPLC determination of phenolic acids, flavonoids and ascorbic acid in four different solvent extracts of *Zanthoxylum acanthopodium*, a wild edible plant of Meghalaya State of India. *International Journal of Pharmacy and Pharmaceutical Sciences* 8(3): 2016.
- Shukla, A. K., Tangri, A., dan Shukla, A. 2020. *A Textbook of Organic Chemistry Vol-1.* Bhartiya Sahitya Sangrah, Kanpur.
- Sibero, M. T., Siswanto, A. P., Murwani, R., Frederick, E., H., Wijaya, A. P., Syafitri, E., Farabi, K., Saito, S., dan Iragashi, Y. 2020. Antibacterial, cytotoxicity and metabolite profiling of crude methanolic extract from andaliman (*Zanthoxylum acanthopodium*) fruit. *Biodiversitas* 21(9): 4147-4154.

- Simanjuntak, M. E. dan Widyawati, P. S. 2020. Karakteristik pengeringan andaliman (*Zanthoxylum acanthopodium* DC.) dengan pengering *swirl fluidized bed*. *Jurnal Teknologi Pangan dan Gizi* 19(1): 14-21.
- Simbolon, W. I., Kardhinata, E. H., Bangun, M. K., Simatupang, S. 2018. Identifikasi karakter morfologis andaliman (*Zanthoxylum acanthopodium* DC.) di beberapa kabupaten di Sumatera Utara. *Jurnal Agroteknologi FP USU* 6(4): 745-756.
- Sinaga, R. E., dan Prasetyo, H. A. 2020. Analisis kadar minyak atsiri andaliman Desa Bandar Huta Usang Kabupaten Dairi (*Zanthoxylum acanthopodium* D.). *Seminar Nasional Teknologi Komputer & Sains*: 655-657.
- Singh, A., Singh, R. K., Bhunia, A. K., dan Singh, N. 2003. Efficacy of plant essential oils as antimicrobial agents against *Listeria monocytogenes* in hotdogs. *LWT-Food Science and Technology* 36(8): 787-794.
- Sitanggang, F. M. C., Duniaji, A. S., dan Pratiwi, I. D. P. K. 2019. Daya hambat ekstrak buah andaliman (*Zanthoxylum acanthopodium* DC) dalam etil asetat terhadap pertumbuhan *Escherichia coli*. *Jurnal Ilmu dan Teknologi Pangan* 8(3): 257-266.
- Skarp, C. P. A., Hanninen, M. L., Rautelin, H. I. K. 2016. Campylobacteriosis: the role of poultry meat. *Clinical Microbiology and Infection* 22(2): 103-109.
- Sorapukdee, S., Jansa, S., dan Tangwatcharin, P. 2019. Partial replacement of pork backfat with konjac gel in Northeastern Thai fermented sausage (Sai Krok E-san) to produce the healthier product. *Asian-Australasian Journal of Animal Sciences* 32(11): 1763-1775.
- Spence, C. 2015. On the psychological impact of food colour. *Flavour* 21(4): 1-16.
- Sukuraman, A. T., Holtcamp, A. J., Englishbey, A. K., Campbell, Y. L., Kim, T., Schilling, M. W., Dinh, T. T. N. 2018. Effect of deboning time on the growth of *Salmonella*, *E. coli*, aerobic and lactic acid bacteria during beef sausage processing and storage. *Meat Science* 139(2018): 49-55.
- Suradi, K. 2007. Tingkat kesukaan bakso dari berbagai jenis daging melalui beberapa pendekatan statistik. *Jurnal Ilmu Ternak* 7(1): 52-57.
- Tahmouzi, S., Razavi, S. H., Safari, M., dan Emam-Djomeh, Z. 2012. Development of a practical method for processing of nitrite-free hot dogs with emphasis on evaluation of physico-chemical and microbiological properties of the final product during refrigeration. *Journal of Food Processing and Preservation* 37(2): 109-119.

- Tao, F. dan Peng, Y. 2017. "Spectral Techniques for Meat Quality and Safety Assessment". Di *Advances in Meat Processing Technology*. Disunting oleh Bekhit, A. E. A. CRC Press, Boca Raton.
- Triana, R. N., Andarwulan, N., Affandi, A. R., dan Nur, R. C. 2015. Karakteristik sensori donat dengan penambahan emulsifier mono-diasilglicerol dari *fully hydrogenated palm stearin*. *Jurnal Mutu Pangan* 2(1): 34-40.
- Trindade, M. A., Contreras, C. C., dan de Felicio, P. E. 2005. Mortadella sausage formulations with partial and total replacement of beef and pork backfat with mechanically separated meat from spent layer hens. *Journal of Food Science* 70(3): 236-241
- Usman, M. R. M., Mahajan, A. S., Pawar, S. R. 2017. Effect of size reduction and drying technology on granules production. *World Journal of Pharmacy and Pharmaceutical Sciences* 6(7): 1653-1664.
- Utama, D. T., Jeong, H. S., Kim, J., Barido, F. H., Lee, S. K. 2019. Fatty acid composition and quality properties of chicken sausage formulated with pre-emulsified perilla-canola oil as an animal fat replacer. *Poultry Science* 98(7): 3059-3066.
- Viana, F. 2011. Chemosensory properties of the trigeminal system. *ACS Chemical Neuroscience* 2(1): 38-50.
- Wocjiaak, K. M., Stasiak, D. M., dan Keska, P. 2019. The influence of different levels of sodium nitrite on the safety, oxidative stability, and color of minced roasted beef. *Sustainability* 11(3795): 1-16.
- Wood, J. D., Enser, M., Richardson, R. I., dan Whittington, F. M. 2007. "Fatty Acids in Meat and Meat Products". Di *Fatty Acids in Foods and their Health Implications*. Disunting oleh Chow, C. K. CRC Press, Boca Raton.
- Yeretzian, C., Opitz, S., Smrke, S., dan Wellingher, M. 2019. "Coffee Volatile and Aroma Compounds – From the Green Bean to the Cup". Di *Coffee: Production, Quality and Chemistry*. Disunting oleh Farah, A. Royal Society of Chemistry: London.
- Zargar, F. A., Kumar, S., Bhat, Z. F., dan Kumar, P. 2014. Effect of pumpkin on the quality characteristics and storage quality of aerobically packaged chicken sausages. *SpringerPlus* 3(39): 1-10.
- Zhu, L. dan Wu, W. 2019. Artificial neural network for determining the hedonic score of texture of and distinguishing different grades of ham sausages. *Food Science and Technology* 40(1): 46-54.