

DAFTAR PUSTAKA

- Adampourezare, M., Asadpour-Zeynali, K., de la Guardia, M., & Dolatabadi, J. E. N. (2025). The design of paper-based electroanalytical microfluidic device coupled with post-synthesized molecularly imprinted polymers (rGO/Au@Ag₂S/PANI/polyacrylamide) for the detection of streptomycin. *Sensors and Actuators Reports*, 9, 100297.
- Al-Naser, J., Hossain, H., Chowdhury, M. S. R., Liza, N. A., Lasker, R. M., Rahman, A., Haque, M. A., Hossain, M., & Rahman, M. M. (2024). Exploring of spectrum β -lactamase producing multidrug-resistant *Salmonella enterica* serovars in goat meat markets of Bangladesh. *Veterinary and Animal Science*, 25, 100367.
- Anam, K., Cahyadi, W., Azmi, I., Senjarini, K., & Oktariant, R. (2021). Analisis hasil elektroforesis DNA dengan *image processing* menggunakan metode Gaussian filter. *Indonesian Journal of Electronics and Instrumentation Systems (IJEIS)*, 11(1), 37–48.
- Arini, N., & Achyar, A. (2023). Optimization of deoxyribonucleic acid (DNA) isolation methods from several types of cosmetic samples for molecular-based halal tests. *Journal of Halal Product and Research*, 6(1), 1-10.
- Badan Pusat Statistik. (2025). Produksi Daging Ayam Ras Pedaging menurut Provinsi (Ton). Diakses 28 Maret 2025 dari <https://www.bps.go.id/id/statistics-table/2/NDg4IzI=/produksi-daging-ayam-ras-pedaging-menurut-provinsi--ton-.html>
- Boulangier, M., Taillandier, J.-F., Henri, J., De Baere, S., Ferran, A. A., Devreese, M., & Viel, A. (2024). Pharmacokinetic modeling of sulfamethoxazole-trimethoprim and sulfadiazine-trimethoprim combinations in broilers. *Poultry Science*, 103, 104200.
- Budiarto, R., Ujilestari, T., Rumhayati, B., Hudaya, M. F., Adli, D. N., Sitaresmi, P. I., Widodo, S., Wulandari, W., Wahyono, T., & Sholikin, M. M. (2024). Meta-analysis of citrus-derived additives on chicken meat quality and safety: A comprehensive evaluation of acceptability, physicochemical properties, and microbial contamination. *Poultry Science*, 103, 103556.
- Bura, M. A. Y. D., Effendi, M. H., & Puspitasari, Y. (2024). Profile of antibiotic residue and antibiotic resistance in broiler chicken meat in Indonesia: Public health importance. *Jurnal Kajian Veteriner*, 12(1), 61–76.
- Clavijo, V., Morales, T., Vives-Flores, M. J., & Reyes Muñoz, A. (2022). The gut microbiota of chickens in a commercial farm treated with a *Salmonella* phage cocktail. *Scientific Reports*, 12, 991.
- CLSI. (2020). *Performance standards for antimicrobial susceptibility testing, M100S, (30th edition)*. Wayne, PA: Clinical and Laboratory Standards Institute.
- Daffa, D., Pratiwi, L. H., Pramono, A., Rahayu, E. T., Anam, C., Yulviatun, A., & Cahyadi, M. (2025). Evaluasi rumah potong ayam dan praktik penyembelihannya di sekitar Kota Surakarta. *Journal of Livestock and Animal Health*, 8(1), 08–15.

- Dairawan, M., & Shetty, P. J. (2020). The evolution of DNA extraction methods. *Biomedical Science and Research*, 8(2).
- Demars, M., McDowell, T., Renaud, J. B., Scott, A., Fruci, M., & Topp, E. (2024). Persistence and evidence for accelerated biodegradation of streptomycin in agricultural soils. *Science of The Total Environment*, 929, 172502.
- Doyuk, F., dan Dost, K. (2023). Simultaneous Determination of six antibiotics belonging to four different classes in chicken meat BY HPLC/DAD and verification BY LC-MS/MS. *Food Chemistry*, 426(136549): 1-11.
- El-Alfy, N. Z. I., Emam, A. A. K., Mahmoud, M. F., Morgan, O. N. M., & El-Ashry, S. R. G. E. (2024). Potential protection by vitamin D against DNA fragmentation and bone marrow cytotoxicity induced by chloramphenicol. *Toxicology Reports*, 13, 101828.
- El-Saadony, M.T., Salem, H.M., El-Tahan, A.M., Abd El-Mageed, T.A., Soliman, S.M., Khafaga, A.F., Swelum, A.A., Ahmed, A.E., Alshammari, F.A., & Abd El-Hack, M.E. (2022). *The control of poultry salmonellosis using organic agents: An updated overview*. *Poultry Science*, 101, 101716.
- Enomoto, H., Petritz, O. A., Thomson, A. E., Flammer, K., Ferdous, F., Meyer, E., Tell, L. A., & Baynes, R. E. (2021). Egg residue and depletion in Rhode Island Red hens (*Gallus gallus domesticus*) following multiple oral doses of trimethoprim-sulfamethoxazole. *Regulatory Toxicology and Pharmacology*, 123, 104941.
- Galeano, M. B., Robaldi, S. A., Gordillo, T. B., Ricardi, M. M., Cassanelli, P. M., Pereda, R. O., Palomino, M. M., & Tribelli, P. M. (2024). Optimized DNA extraction protocol for *Staphylococcus aureus* strains utilizing liquid nitrogen. *Revista Argentina de Microbiología*.
- Ghazanfari, S., Ghzghapan, A. S., & Honarbakhsh, S. (2024). Effects of peppermint essential oil and artifier on growth performance, carcass characteristics, and nutrient digestibilities in broiler chickens fed with low energy diets. *Veterinary and Animal Science*, 24, 100354.
- Giombelli, A., & Gloria, M. B. A. (2014). Prevalence of *Salmonella* and *Campylobacter* on broiler chickens from farm to slaughter and efficiency of methods to remove visible fecal contamination. *Journal of Food Protection*, 77(11), 1851–1859.
- Grossi, J. L., Yamatogi, R. S., Call, D. R., & Nero, L. A. (2023). High prevalence of intermediate resistance to ciprofloxacin in *Salmonella enterica* isolated from a Brazilian poultry production chain, located in Minas Gerais state. *International Journal of Food Microbiology*, 394, 110180.
- Guidi, L. R., Tette, P. A. S., Fernandes, C., Silva, L. H. M., & Gloria, M. B. A. (2017). Advances on the chromatographic determination of amphenicols in food. *Talanta*, 162, 324-338.
- Gupta, N. (2019). DNA extraction and polymerase chain reaction. *Journal of Cytology*, 36(2), 116–117.
- Gussem, M. de, Mailyan, E., van Middelkoop, K., van Mullem, K., Renard, R., van Schie, T., & van 't Veer, E. (2018) *Broiler signals: A practical guide to broiler-focused meat management*. Netherlands: Roodbont Publishers B.V.

- Heraini, D., & Rohayeti, Y. (2024). Pengolahan limbah usus ayam broiler menjadi makanan ringan. *Dharma Raflesia: Jurnal Ilmiah Pengembangan dan Penerapan IPTEKS*, 22(2), 360–370.
- Honda, H., Miyajima, H., Miyamoto, N., Yoshida, K., & Tanaka, Y. (2024). Development of a simple, low-cost, blue light-emitting diode illuminator for hands-on training of DNA detection experiments using agarose gel electrophoresis. *Journal of Microbiology and Biology Education*, 25(3).
- Indraini, S. (2024). Analisis higiene dan sanitasi lingkungan rumah pemotongan ayam di Desa Sidowungu Kecamatan Menganti Kabupaten Gresik berdasarkan SNI 01-6160-1999. *Jurnal Penelitian Perawat Profesional*, 6(3), 1205–1214.
- ISO 6579-1:2017. (2017). *Microbiology of the food chain, Horizontal method for the detection, enumeration and serotyping of Salmonella spp. Part 1: Detection of Salmonella Spp.* Switzerland: International Organization for Standardization.
- Istiqomah, N., Hestianah, E. P., Permatasari, D. A., Puspitasari, Y., Raharjo, D., Hendrawan, V. F., & Tyasningsih, W. (2025). Detection of bacterial contamination *Salmonella spp.spp.* on broiler chicken meat for sale at the traditional market of East Surabaya, Indonesia. *GSC Biological and Pharmaceutical Sciences*, 30(1), 144–151.
- Karlsson, L., Keeling, L., & Rööös, E. (2025). What is a better chicken? Exploring trade-offs between animal welfare and greenhouse gas emissions in higher-welfare broiler systems. *Sustainable Production and Consumption*, 55, 203–216.
- Karmakar, S., Kumar, K., Abraham, T. J., Kumar, S., Kumar, S., Shukla, S. P., & Dey, B. (2024). The role of environmentally relevant concentrations of oxytetracycline in the emergence of antimicrobial resistance in *Aeromonas hydrophila* and *Edwardsiella tarda*. *Journal of Hazardous Materials Letters*, 5, 100130.
- Karunanathie, H., Kee, P. S., Ng, S. F., Kennedy, M. A., & Chua, E. W. (2022). PCR enhancers: Types, mechanisms, and applications in long-range PCR. *Biochimie*, 197, 130–143.
- Kementerian Pertanian Republik Indonesia. (2017). *Peraturan Menteri Pertanian No. 14 Tahun 2017 tentang Klasifikasi Obat Hewan.*
- Khehra, N., Padda, I. S., & Swift, C. J. (2025). *Polymerase chain reaction (PCR)*. Treasure Island: StatPearls Publishing.
- Kristensen, K., Ward, L. M., Mogensen, M. L., & Cichosz, S. L. (2023). Using image processing and automated classification models to classify microscopic Gram stain images. *Computer Methods and Programs in Biomedicine Update*, 3, 100091.
- Lamichhane, B., Mawad, A. M. M., Saleh, M., Kelley, W. G., Harrington, P. J. II, Lovestad, C. W., Amezcua, J., Sarhan, M. M., El Zowalaty, M. E., Ramadan, H., Morgan, M., & Helmy, Y. A. (2024). Salmonellosis: An overview of epidemiology, pathogenesis, and innovative approaches to mitigate the antimicrobial resistant infections. *Antibiotics*, 13(1), 76.

- Leboffe, M.J. & Pierce, B.E. (2011). *A Photographic Atlas for The Microbiology Laboratory 4th Edition*. USA: Morton Publishing Company.
- Li, L., Sun, H., Zhao, J., Sheng, H., Li, M., Zhao, L., Liu, S., Fanning, S., Wang, L., Wang, Y., Wu, Y., Ding, H., & Bai, L. (2025). The genomic characteristics of dominant *Salmonella* enterica serovars from retail pork in Sichuan province, China. *International Journal of Food Microbiology*, 434, 111129.
- Magiorakos, A.-P., Srinivasan, A., Carey, R. B., Carmeli, Y., Falagas, M. E., Giske, C. G., Harbarth, S., Hindler, J. F., Kahlmeter, G., Olsson-Liljequist, B., Paterson, D. L., Rice, L. B., Stelling, J., Struelens, M. J., Vatopoulos, A., Weber, J. T., & Monnet, D. L. (2012). Multidrug-resistant, extensively drug-resistant and pandrug-resistant bacteria: An international expert proposal for interim standard definitions for acquired resistance. *Clinical Microbiology and Infection*, 18(3), 268–281.
- Margot, H., Zwietering, M. H., Joosten, H., O'Mahony, E., & Stephan, R. (2015). Evaluation of different buffered peptone water (BPW) based enrichment broths for detection of Gram-negative foodborne pathogens from various food matrices. *International Journal of Food Microbiology*, 214, 109–115.
- Markey, B., F., Leonard, M., Archambault, A., & Cullinane, D. Maguire. (2013). *Clinical. Veterinary Microbiology Second Edition*. Canada: Elsevier.
- McWhorter, A. R., Weerasooriya, G., Kumar, S., & Chousalkar, K. K. (2023). Comparison of peroxyacetic acid and acidified sodium chlorite at reducing natural microbial contamination on chicken meat pieces. *Poultry Science*, 102, 103009.
- Mon, K. K. Z., Zhu, Y., Chanthavixay, G., Kern, C., & Zhou, H. (2020). Integrative analysis of gut microbiome and metabolites revealed novel mechanisms of intestinal *Salmonella* carriage in chicken. *Scientific Reports*, 10, 4809.
- Mund, M. D., Khan, U. H., Tahir, U., Mustafa, B.-E., & Fayyaz, A. (2017). Antimicrobial drug residues in poultry products and implications on public health: A review. *International Journal of Food Properties*, 20(7), 1433–1446.
- Nur'aini, S., Mukaromah, A. S., & Muhliso, S. (2019). Pengenalan Deoxyribonucleic Acid (DNA) dengan Marker-Based Augmented Reality. *Walisongo Journal of Information Technology*, 1(2), 91–100.
- Oludairo, O. O., Kwaga, J. K. P., Kabir, J., Abdu, P. A., Gitanjali, A., Perrets, A., Cibir, V., Lettini, A. A., & Aiyedun, J. O. (2022). A review on *Salmonella* characteristics, taxonomy, nomenclature with special reference to non-typhoidal and typhoidal salmonellosis. *Zagazig Veterinary Journal*, 50(2): 161-176.
- Opong, G. M., Adediran, O. A., Awodoyin, O. R., & Omojola, A. B. (2021). Utilisation of chicken intestines as extender in frankfurter sausage. *Nigerian Agricultural Journal*, 52(3), 202-208.
- Pattison, M., McMullin, P. F., Bradbury, J. M., & Alexander, D. J. (2008). *Poultry diseases* (6th ed.). USA: Elsevier. pp. 110–133.

- Putra, A. S., & Ismanto, A. (2022). Pengaruh perendaman usus ayam dengan ekstrak daun sirih (*Piper betel*) terhadap kualitas fisik, organoleptik, dan total bakteri. *Jurnal Peternakan Lingkungan Tropis*, 5(1), 9-16.
- Rahayuningtyas, I., Andesfha, E., Istiyarningsih, Astuti, L. S., & Atikah, N. (2017). *Isolasi dan identifikasi Salmonella spp. pada ayam petelur di Indonesia dengan teknik kultur dan serotyping menggunakan PCR*. Jakarta: Balai Besar Pengujian Mutu dan Sertifikasi Obat Hewan. pp. 1–15.
- Rawat, N., Anjali, A., Shreyata, S., Sabu, B., Devi, P. P., Jamwal, R., Yadav, K., Kumar, N., & Rajagopal, R. (2025). Recovery of multi-drug resistant, multiple antibiotik resistance genes-carrying non-typhoidal *Salmonella* from antibiotik-free and conventional chicken meat: A comparative study in Delhi, India. *The Microbe*, 6, 100270.
- Republik Indonesia. (2014). *Undang-Undang No. 41 Tahun 2014 tentang Perubahan atas UU No. 18 Tahun 2009 tentang Peternakan dan Kesehatan Hewan*.
- Ricke, S. C., Khatiwara, A., & Kwon, Y. M. (2013). Application of microarray analysis of foodborne *Salmonella* in poultry production: A review. *Poultry Science*, 92(9), 2243–2250.
- Rodloff, A., Bauer, T., Ewig, S., Kujath, P., & Müller, E. (2008). Susceptible, intermediate, and resistant – The intensity of antibiotik action. *Dtsch Arztebl Int*, 105(39), 657–662.
- Sanchez, I., Remm, M., Frasilho, S., Betsou, F., & Mathieson, W. (2015). How severely is DNA quantification hampered by RNA co-extraction? *Biopreservation and Biobanking*, 13(5), 320-324.
- Sarrami, Z., Sedghi, M., Mohammadi, I., Kim, W. K., & Mahdavi, A. H. (2022). Effects of bacteriophage supplement on the growth performance, microbial population, and PGC-1 α and TLR4 gene expressions of broiler chickens. *Scientific Reports*, 12, 14391.
- Sasmita, F., Latif, W. O. U., Inal, I., Tao, H., Hajar, H., & Priyana, Y. L. O. (2025). Implementasi biosekuriti dan higiene rumah pemotongan unggas skala kecil di Kota Kendari. *Jurnal Peternakan Lokal*, 7(1), 11–23.
- Shang, Y., Kumar, S., Oakley, B., & Kim, W. K. (2018). Chicken gut microbiota: Importance and detection technology. *Frontiers in Veterinary Science*, 5, 254.
- Sharif, N., Ahmed, S. N., Khandaker, S., Monifa, N. H., Abusharha, A., Ramírez Vargas, D. L., De la Torre Díez, I., Kuc Castilla, A. G., Talukder, A. A., Parvez, A. K., & Dey, S. K. (2023). Multidrug resistance pattern and molecular epidemiology of pathogens among children with diarrhea in Bangladesh, 2019–2021. *Scientific Reports*, 13, 13975.
- Silva, S., Costa, E. M., Vicente, S., Veiga, M., Calhau, C., Morais, R. M., & Pintado, M. E. (2017). DNA agarose gel electrophoresis for antioxidant analysis: Development of a quantitative approach for phenolic extracts. *Food Chemistry*, 233, 45–51.
- Song, L., Tan, R., Xiong, D., Jiao, X., & Pan, Z. (2023). Accurate identification and discrimination of *Salmonella enterica* serovar Gallinarum biovars

- Gallinarum* and *Pullorum* by a multiplex PCR based on the new genes of *torT* and *I137_14430*. *Frontiers in Veterinary Science*, 10.
- Sophian, A., & Syukur, A. (2021). Short Communication: Analysis of Purity and Concentration of Isolated DNA in Making Raw DNA of Rat Species. *Eruditio*, 1(2), 1–5.
- Sophian, A., Purwaningsih, R., Muindar, Igrisa, E. P. J., & Amirullah, M. L. (2021). Analysis of purity and concentration of DNA extracted from intron patho gene-spin extraction on processed crab food product samples. *Asian Journal of Tropical Biotechnology*, 18(1), 28–31.
- Ssemanda, J. N., den Besten, H. M. W., van Wagenberg, C. P. A., & Zwietering, M. H. (2024). Quantitative assessment of food safety interventions for *Campylobacter* spp. and *Salmonella* spp. along the chicken meat supply chain in Burkina Faso and Ethiopia. *International Journal of Food Microbiology*, 415, 110637.
- Szoke, Z., Fauszt, P., Mikolas, M., David, P., Szilagyi-Tolnai, E., Pesti-Asboth, G., Homoki, J. R., Kovacs-Forgacs, I., Gal, F., Stundl, L., Czeglédi, L., Stágel, A., Biro, S., Remenyik, J., & Páholcsek, M. (2025). Comprehensive analysis of antimicrobial resistance dynamics among broiler and duck intensive production systems. *Scientific Reports*, 15, 4673.
- Tang, B., Siddique, A., Jia, C., Ed-Drab, A., Wu, J., Lin, H., & Yue, M. (2023). Genome-based risk assessment for foodborne *Salmonella enterica* from food animals in China: A One Health perspective. *International Journal of Food Microbiology*, 390, 110120.
- Tasse, A. M., Fitriyaningsih, & Sutopo, D. (2019). Inovasi penganekaragaman produk olahan usus pada kelompok warung bakso di Kecamatan Baruga Kota Kendari. *Jurnal Pengamas*, 2(2), 144-151.
- Tian, L., & Bayen, S. (2018). Thermal degradation of chloramphenicol in model solutions, spiked tissues, and incurred samples. *Food Chemistry*, 248, 230-237.
- Tille, P. M. 2017. *Bailey & Scotts Diagnostic Microbiology 14th Edition*. Dakota : Elseiver. pp. 329–356.
- Tondeur, W., Simons, P., Schie, T., & Holleman, J. (2020). *Broiler Meat Signals: A Practical Guide to Improving Poultry Meat Quality*. Netherlands: Roodbont Publishers B.V.
- Ubaidillah, H., & Haryati, H. (2022). Faktor risiko kontaminasi *Salmonella* spp. pada daging ayam broiler (*Gallus gallus domestica*) yang dijual di Pasar Banguntapan. *Jurnal Ilmiah Ilmu Keperawatan dan Ilmu Kesehatan Masyarakat*, 18(1), 31–40.
- van Hemert, S., Hoekman, A. J. W., Smits, M. A., & Rebel, J. M. J. (2006). Gene expression responses to a *Salmonella* infection in the chicken intestine differ between lines. *Veterinary Immunology and Immunopathology*, 114(3–4), 247–258.
- Vanda, H., Titania, T., Sari, W. E., Hambal, M., & Gani, F. A. (2023). Performance of broiler chickens reared in postal, stage, and closed house cage. *Jurnal Medika Veterinaria*, 17(1), 33–41.

- Wessels, K., Rip, D., & Gouws, P. (2021). *Salmonella* in chicken meat: Consumption, outbreaks, characteristics, current control methods, and the potential of bacteriophage use. *Foods*, 10, 1742.
- Wong, Y. C., Ng, A. W. R., Osahor, A., & Narayanan, K. (2024). Customizable BAC-based DNA markers for pulsed-field gel electrophoresis. *Analytical Biochemistry*, 693, 115596.
- Yakobi, S.H. & Nwodo, U. U. (2025). Microbiological methodologies: Comparative evaluation of microbial community and enhanced antibiotik susceptibility testing. *Electronic Journal of Biotechnology*, 74, 29-40.
- Yu, G.-Y., Lee, G.-W., Hung, Y.-T., Li, S.-C., Ma, Y.-P., Chen, Z.-W., & Hsuan, S.-L. (2025). AI-driven identification and analysis of inhibition zones in disk diffusion tests with the hue contrast method. *Microchemical Journal*, 208, 112459.