

DAFTAR PUSTAKA

- Abdullah, F., & Chua, L. (2020). *High Throughput Comparison Of 13 Herbal Plants Extracted by Heat-Refluxed and Heat-Pressurized Extraction Techniques Using Chemometrics*. <https://doi.org/10.21203/Rs.3.Rs-90768/V1>
- Ahmad, A. R., Juwita, J., & Ratulangi, S. A. D. (2015). Penetapan Kadar Fenolik dan Flavonoid Total Ekstrak Metanol Buah dan Daun Patikala (*Etlintera elatior* (Jack) R.M.SM). *Pharmaceutical Sciences And Research*, 2(1), 1–10. <https://doi.org/10.7454/Psr.V2i1.3481>
- Amalia, L., Siti Nurlela, R., Pangan, J. T., Fakultas, G., Pangan, I., Universitas, H., Bogor, D., Tol, J., & No, C. (2024). *Perbandingan Profil Protein Daging Ayam dan Daging Tikus Menggunakan SDS-PAGE (Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis)* (Vol. 3, Issue 5).
- Baladraf, D. M. S., Yusuf, Y., & Yusuf, A. (2022). Manufacturing of Things and Characteristics of Chilli, Orange Skin, and Cinnamon Extract Using Maceration Method. *Journal of Health, Technology and Science (Jhts)*. <https://doi.org/10.47918/Jhts.V2i4.250>
- Banik, B. K., & Sahoo, B. M. (2020). Reactions In Water: Synthesis of Biologically Active Compounds. in *Green Approaches in Medicinal Chemistry For Sustainable Drug Design*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-817592-7.00013-7>
- BPS Direktorat Jenderal Peternakan dan Kesehatan Hewan (2022). Kementerian Pertanian Republik Indonesia.
- Chairunnisa, S., Wartini, N. M., & Suhendra, L. (2019). Pengaruh Suhu dan Waktu Maserasi terhadap Karakteristik Ekstrak Daun Bidara (*Ziziphus mauritiana* L.) Sebagai Sumber Saponin. *Jurnal Rekayasa dan Manajemen Agroindustri*, 7(4), 551. <https://doi.org/10.24843/Jrma.2019.V07.I04.P07>
- Chalamaiah, M., Dinesh Kumar, B., Hemalatha, R., & Jyothirmayi, T. (2012). Fish Protein Hydrolysates: Proximate Composition, Amino Acid Composition, Antioxidant Activities and Applications: A Review. *Food Chemistry*, 135(4), 3020–3038. <https://doi.org/10.1016/J.Foodchem.2012.06.100>
- Chan, E. W. C., Lim, Y. Y., Ling, S. K., Tan, S. P., Lim, K. K., & Khoo, M. G. H. (2009). Caffeoylquinic Acids From Leaves of *Etlintera* Species (*Zingiberaceae*). *Lwt*, 42(5), 1026–1030. <https://doi.org/10.1016/J.Lwt.2009.01.003>
- Chan, E. W. C., Lim, Y. Y., & Wong, S. K. (2011). Phytochemistry and Pharmacological Properties of *Etlintera elatior*: A Review. *Pharmacognosy Journal*, 3(22), 6–10. <https://doi.org/10.5530/Pj.2011.22.2>
- Chang, C., Niu, F., Su, Y., Qiu, Y., Gu, L., & Yang, Y. (2016). Characteristics and Emulsifying Properties of Acid and Acid-Heat Induced Egg White Protein. *Food Hydrocolloids*, 54, 342–350. <https://doi.org/10.1016/J.Foodhyd.2015.09.026>

- Dewajanti, A. M. (2019). Peranan Asam Klorogenat Tanaman Kopi terhadap Penurunan Kadar Asam Urat dan Beban Oksidatif. *Jurnal Kedokteran Meditek*, 25(1), 46–51. <https://doi.org/10.36452/jkdoktmeditek.V25i1.1758>
- Duong, T. H., Grolle, K., Nga, T. T. V., Zeeman, G., Temmink, H., & Van Eekert, M. (2019). Protein Hydrolysis and Fermentation Under Methanogenic and Acidifying Conditions. *Biotechnology For Biofuels*, 12(1), 1–10. <https://doi.org/10.1186/s13068-019-1592-7>
- Dwi, M., Listiawati, A., Nastiti, K., Audina, M. (2022). Pengaruh Perbedaan Jenis Pelarut terhadap Kadar Fenolik Ekstrak Daun Sirsak (*Annona muricata* L.). *Journal of Pharmaceutical Care and Sciences* 3(1). <https://ejurnal.unism.ac.id/index.php/jpcs>
- Elfita Lina (2014). Analisis Profil Protein dan Asam Amino Sarang Burung Walet (*Collocalia fuchiphaga*) Asal Painan. *Jurnal Sains Farmasi dan klinik* 19(1) 27-37.
- Ghasemzadeh, A., Jaafar, H. Z. E., Rahmat, A., & Ashkani, S. (2015). Secondary Metabolites Constituents and Antioxidant, Anticancer and Antibacterial Activities of *Etlingera elatior* (Jack) R.M.Sm Grown In Different Locations of Malaysia. *BMC Complementary And Alternative Medicine*, 15(1), 1–10. <https://doi.org/10.1186/s12906-015-0838-6>
- Gravelle, A. J., Marangoni, A. G., & Barbut, S. (2017). The Influence of Particle Size and Protein Content In Particle-Filled Myofibrillar Protein Gels. *Meat And Muscle Biology*, 1(1). <https://doi.org/10.22175/mmb2016.11.0004>
- Hamidah, Cikra Ikhdha Nur, & Hidayati, W. (2023). Formulasi dan Evaluasi Uji Mutu Fisik Body Scrub dari Ekstrak Bunga Kecombrang (*Etlingera elatior*). *Jurnal Kesehatan Pharmasi* 5(1).
- Han, Z., Liu, S., Cao, J., Yue, X., & Shao, J.-H. (2024). A Review of Oil and Water Retention in Emulsified Meat Products: The Mechanisms of Gelation And Emulsification, The Application of Multi-Layer Hydrogels. *Critical Reviews in Food Science and Nutrition*, 64(23), 8308–8324. <https://doi.org/10.1080/10408398.2023.2199069>
- Handayani, I. M., Susanto, E., & Wardoyo. (2020). Analysis of The Physical and Chemical Quality of Local Livestock Meat in Local Chickens At RPU (*Poultry Slaughterhouse*), Sidoharjo Market , Lamongan Regency. in *International Journal Of Animal Science*, 3(3), 76–85.
- Handayani, V., Ahmad, A. R., Sudir, M., Etlingera, P., & Sm, R. M. (2014). Uji Aktivitas Antioksidan Ekstrak Metanol Bunga dan Daun Patikala (*Etlingera elatior* (Jack)
- R. Mhandayani, V., Ahmad, A. R., Sudir, M., Etlingera, P., & Sm, R. M. (2014). Uji Aktivitas Antioksidan Ekstrak Metanol Bunga dan Daun Patikala (*Etlingera elatior*) *Pharm Sci Res*, 1(2).
- Hartanto, E. S., Rhoito, D., & Silitonga, F. (N.D.). (2018). Extraction of Myristic Acid From *Myristica fragrans* Houtt And Its Industrial Waste. *Indonesian Journal of Industrial Research* 35(1) 38-45.
- Henao-Ardila, A., Quintanilla-Carvajal, M. X., & Moreno, F. L. (2024). Emulsification and Stabilisation Technologies Used For The Inclusion of Lipophilic Functional

- Ingredients In Food Systems. *Heliyon*, 10(11).
<https://doi.org/10.1016/j.heliyon.2024.E32150>
- Hermanianto, J., Siregar, D. S., & Suyatma, N. E. (2021). The Use of Soy Protein Isolate In Meatballs and Its Effect on The Quality and Shelf Life of The Product. *Canrea Journal: Food Technology, Nutritions, and Culinary Journal*, 4(1), 48–58. <https://doi.org/10.20956/Canrea.V4i1.418>
- Hermanto, S., & Meutia, C. D. K. (2009). Perbedaan Profil Protein Produk Olahan (Sosis) Daging Babi dan Sapi Hasil Analisa SDS-PAGE. *Jurnal Kimia VALENSI*, 1(4), 181–186. <https://doi.org/10.15408/Jkv.V1i4.247>
- Hotmian, E., Suoth, E., Fatimawali, F., & Tallei, T. (2021). Analisis GC-MS (Gas Chromatography - Mass Spectrometry) Ekstrak Metanol dari Umbi Rumpuk Teki (*Cyperus rotundus* L.). *Pharmakon*, 10(2), 849. <https://doi.org/10.35799/Pha.10.2021.34034>
- Irmawaty, I., Widjastuti, T., Anang, A., & Hidayat, M. N. (2020). Performance Chickens Kedu, Arab And Its Cross Breeds (Poncin) of Distribution Content Protein of Growth Fase (Age 0 -12 Week). *Chalaza Journal of Animal Husbandry*, 5(2), 40–47. <https://doi.org/10.31327/Chalaza.V5i2.1303>
- Isyanti, M., Andarwulan, N., & Nur Faridah, D. (2019). Karakteristik Fisik dan Fitokimia Buah Kecombrang (*Etilingera elatior* (Jack) R.M. Sm). *Warta Industri Hasil Pertanian*, 36(2), 96. <https://doi.org/10.32765/Wartaihp.V36i2.5267>
- Kaimudin, M. (2020). Review : Analisis Profil Protein Ikan dengan Metode SDS-PAGE. *Majalah BIAM*, 16(01), 13–20. <http://ejournal.kememperin.go.id/files010483/journals/17/articles/6077/public/6077-26433-1-PB.pdf>
- Khafidhoh, Z., Sinto Dewi, S., Iswara, A. (2015). Efektivitas Infusa Kulit Jeruk Purut (*Citrus hystrix* Dc.) terhadap Pertumbuhan *Candida Albicans* Penyebab Sariawan Secara In Vitro. University Research Coloqium,
- Kılınççeker, O. (2019). Some Properties of Chicken Meatballs Incorporated With Dietary Fibers. *Journal Of The Hellenic Veterinary Medical Society*, 70. <https://doi.org/10.12681/Jhvms.18365>
- Kumar Roy, V., Senthil Kumar, N., & Gurusubramanian, G. (2012). *Proteins-Structure, Properties and Their Separation By SDS-PAGE*. www.sciencevision.org
- Laksmiani, N. P. L. , Susanti. N. M. P., Widjaya. I. N. K., & Rismayanti. A. A. M. I. Wirasuta. IM. A. G. (2017). Pengembangan Metode Refluks untuk Ekstraksi Andrografolid dari Herba Sambiloto (*Andrographis paniculata* (Burm.f.) Nees). *Jurnal Farmasi Udayana*.
- Leeb, E., Stefan, T., Letzel, T., Hinrichs, J., & Kulozik, U. (2020). Tryptic Hydrolysis of B-Lactoglobulin: A Generic Approach to Describe The Hydrolysis Kinetic and Release of Peptides. *International Dairy Journal*, 105. <https://doi.org/10.1016/j.idairyj.2020.104666>
- Li, C., Zhang, Y., Zhao, C., Ni, Y., Wang, K., Zhang, J., & Zhao, W. (2017). Ultrasonic Assisted-Reflux Synergistic Extraction of Camptothecin and Betulinic Acid From *Camptotheca acuminata* Decne. Fruits. *Molecules*, 22(7). <https://doi.org/10.3390/Molecules22071076>

- Li, S., Li, C., Yang, Y., He, X., Zhang, B., Fu, X., Tan, C. P., & Huang, Q. (2019). Starch Granules As Pickering Emulsifiers: Role of Octenylsuccinylation and Particle Size. *Food Chemistry*, 283, 437–444. <https://doi.org/10.1016/j.foodchem.2019.01.020>
- Maharani, M., Bintari, Y. R., & Wulandari, D. N. (2022). Pengaruh Variasi Pelarut Metode Ultrasonic Assisted Extraction terhadap Rendemen dan Total Flavonoid dari Serai Dapur (*Cymbopogon citratus*). *Jurnal Bio Komplementer Medicine*, 9(2), 1–8.
- Mahmiah, Sudjarwo, G. W., & Andriyani, F. (2017). Skrining Fitokimia dan Analisis GC-MS Hasil Fraksi Heksana Kulit Batang *Rhizophora mucronata* L. *Seminar Nasional Kelautan XII, 2016*, 44–51.
- Majid, I., Thaha, A. H., Rahayu, R., & Jamili, M. A. (2024). Kualitas Fisik Bakso Daging Ayam Afkir dengan Penambahan Ekstrak Buah Patikala (*Etlingera elatior*). *Jurnal Agrokomples* 24(1), 76–85.
- Margaretta, S., Handayani, S., N. I.-W. (2013) Ekstraksi Senyawa Phenolic *Pandanus amaryllifolius* Roxb. Sebagai Antioksidan Alami. *Journal Wima.Ac.Id*, 21–30. <http://journal.wima.ac.id/index.php/teknik/article/view/157>
- Martínez, M. A., Velázquez, G., Cando, D., Núñez-Flores, R., Borderías, A. J., & Moreno, H. M. (2017). Effects of High Pressure Processing on Protein Fractions of Blue Crab (*Callinectes sapidus*) Meat. *Innovative Food Science and Emerging Technologies*, 41, 323–329. <https://doi.org/10.1016/j.ifset.2017.04.010>
- Meng, X., Wu, D., Zhang, Z., Wang, H., Wu, P., Xu, Z., Gao, Z., Mintah, B. K., & Dabbour, M. (2022). An Overview of Factors Affecting The Quality of Beef Meatballs: Processing and Preservation. *Food Science and Nutrition*, 10(6), 1961–1974. <https://doi.org/10.1002/fsn3.2812>
- Mouncey, R., Arango-Sabogal, J. C., De Mestre, A. M., & Verheyen, K. (2023). Gestation Length is Associated With Early-Life Limb Deformities in Thoroughbred Foals. *Journal of Equine Veterinary Science*, 129, 104896. <https://doi.org/10.1016/j.jevs.2023.104896>
- Naufalin, R. (2005). Kajian Sifat Antimikroba Ekstrak Bunga Kecombrang (*Nicolaia speciosa horun*) terhadap Berbagai Mikroba Patogen dan Perusak Pangan. *Jurnal Institut Pertanian Bogor*.
- Naufalin, R., & Herastuti, S. (2013). Microcapsule Application of Kecombrang Flower Extract: Effects Of Concentration, Types of Fraction, pH of Medium, and NaCl on Microbiological Properties oof Minced Beef. *Animal Production*, 15(1), 8–14.
- Ningrum, R., Purwanti, E., & Sukarsono, S. (2017). Alkaloid Compound Identification of Rhodomyrtus Tomentosa Stem As Biology Instructional Material for Senior High School X Grade. *JPBI (Jurnal Pendidikan Biologi Indonesia)*, 2(3), 231–236. <https://doi.org/10.22219/jpbi.v2i3.3863>
- Novitasari, A. E., & Putri, D. Z. (2016). Isolasi dan Identifikasi Saponin pada Ekstrak Daun Mahkota Dewa dengan Ekstraksi Maserasi. *Jurnal Sains*, 6(12), 10–14.

- Nurshafa, A., Irmawaty, Qurniawan, A., & Rusny. (2024). The Effect of Patikala Fruit Extract (*Etlingera elatior*) on Protein Content, Fat Content And Water Holding Capacity of Culled Laying Hens Meat. *Jurnal Agrisains*, 25(2).
- Okur, G., Tavman, S., Tsutsuura, S., & Nishiumi, T. (2023). Effect of High Pressure Processing on Traditional Turkish Meatballs Properties And Microbiological Safety During Frozen Storage. *Lwt*, 185(April), 115110. <https://doi.org/10.1016/j.lwt.2023.115110>
- Pan, X., Fang, Y., Wang, L., Shi, Y.-Y., Xie, M., Xia, J., Pei, F., Li, P., Xiong, W., Shen, X., & Hu, Q. (2019). Covalent Interaction Between Rice Protein Hydrolysates and Chlorogenic Acid: Improving The Stability of Oil-In-Water Emulsions. *Journal of Agricultural and Food Chemistry*, 67 14, 4023–4030. <https://doi.org/10.1021/acs.jafc.8b06898>
- Prayudani, A. P. G., Astawan, M., Syani, G. M., Subarna, Wresdiyati, T., & Febrinda, A. E. (2023). Effect of Tempe Protein Isolates Addition on Beef Meatballs Characteristics. *Food Research*, 7, 1–7. [https://doi.org/10.26656/fr.2017.7\(s2\).1](https://doi.org/10.26656/fr.2017.7(s2).1)
- Prihatiningsih, R., Setiani, B. E., & Pramono, Y. B. (2020). Pengaruh Metode Thawing terhadap Kadar Protein, Kadar Lemak, dan Protein Terlarut Daging Ayam Petelur Afkir Beku. *Jurnal Teknologi Pangan*, 5(2), 64–70.
- Putri, J. Y., Nastiti, K., & Hidayah, N. (2023). Pengaruh Pelarut Etanol 70% dan Metanol terhadap Kadar Flavonoid Total Ekstrak Daun Sirsak (*Annona muricata* Linn). *Journal Pharmaceutical Care and Sciences*, 3(2), 20–29. <https://doi.org/10.33859/jpcs.v3i2.235>
- Ramadhani, M. A., Hati, A. K., Lukitasari, N. F., & Jusman, A. H. (2020). Skrining Fitokimia dan Penetapan Kadar Flavonoid Total serta Fenolik Total Ekstrak Daun Insulin (*Tithonia diversifolia*) dengan Maserasi Menggunakan Pelarut Etanol 96 %. *Indonesian Journal of Pharmacy and Natural Product*, 3(1), 8–18. <https://doi.org/10.35473/ljpn.v3i1.481>
- Ramasamy, S., Mazlan, N. A., Ramli, N. A., Rasidi, W. N. A., & Manickam, S. (2016). Bioactivity and Stability Studies of Anthocyanin-Containing Extracts from *Garcinia mangostana* L. and *Etlingera elatior* Jack. *Sains Malaysiana*, 45(4), 559–565.
- Restiana, R., & Cahyana, Y. (2023). Karakterisasi Fisikokimia dan Stabilitas Emulsi Pickering Menggunakan Tepung dan Pati Ganyong Termodifikasi Dry-Heat sebagai Emulsifier. *Jurnal Teknotan*, 17(3), 173. <https://doi.org/10.24198/jt.vol17n3.3>
- Rieke Fadhila, S. Darmawati. Profil Protein Daging Kambing, Kerbau dan Sapi yang Direndam Larutan Jahe Berbasis SDS-PAGE. *Prosiding Seminar Nasional Pendidikan, Sains dan Teknologi Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Muhammadiyah Semarang*. 25-33.
- Rivas-Vela, C. I., Amaya-Llano, S. L., Castaño-Tostado, E., & Castillo-Herrera, G. A. (2021). Protein Hydrolysis By Subcritical Water: A New Perspective on Obtaining Bioactive Peptides. *Molecules*, 26(21), 1–15. <https://doi.org/10.3390/molecules26216655>

- Rohmah, N. I., Evanuarini, H., & Thohari, I. (2023). Optimization Chicken Meatball Using Red Lentil Flour (*Lens culinaris* L.) As Filler. *Asian Journal of Advances In Agricultural Research*. <https://doi.org/10.9734/Ajaar/2023/V22i4446>
- Safithri, M., Tarman, K., Suptijah, P., & Widowati, N. (2019). Karakteristik Fisikokimia Kolagen Larut Asam dari Kulit Ikan. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 22(3), 441–452.
- Sari, N., Veronika, R., & Hadijah, S. (2021). Uji Coba Pemanfaatan Buah Patikala (*Etlintera elatior*) terhadap Pembuatan Acar. *Hospitality And Gastronomy Research Journal*, 3(2), 100–112.
- Singapurwa, N. M. A. S., Candra, I. P., & Semariyani, A. A. M. (2022). Profil Protein Ikan Lemuru dengan Pengeringan Oven, Pengering Matahari dan Sinar Matahari Berbasis SDS PAGE. *Jurnal Teknologi Hasil Pertanian*, 15(2), 83. <https://doi.org/10.20961/Jthp.V15i2.53612>
- Sinlae, R. N., Ketut Suwiti, N., & Suardana, W. (2015). Karakteristik Protein dan Asam Amino Daging Sapi Bali dan Wagyu pada Penyimpanan Suhu Dingin 4°C). *Buletin Veteriner Udayana* 7(2)
- Susanti, A. M., Darmawati, S., & Maharani, E. T. W. (2019). Profil Protein Lima Jenis Daging yang Direndam Daun Pepaya Berbasis SDS-PAGE. *Gorontalo Journal of Public Health*, 2(1), 132. <https://doi.org/10.32662/Gjph.V2i1.482>
- Suwarna Perdana, O., & Dian Septinova. (2016). Efektivitas Tepung Bunga Kecombrang (*Nicolaila speciosa horan*) sebagai Pengawet terhadap Daya Suka Organoleptik Daging Broiler. *Jurnal Ilmiah Peternakan Terpadu*, 4(1), 29–35.
- Tszin, S., Fialkov, A. B., & Amirav, A. (2020). Electron Ionization Mass Spectrometry For Both Liquid and Gas Chromatography in One System Without The Need For Hardware Adjustments. *Journal Of The American Society For Mass Spectrometry*, 31(8), 1713–1721. <https://doi.org/10.1021/Jasms.0c00136>
- Velita, V., Amalia, L., Mardiah, M., & Kusumaningrum, J. (2023). Pengaruh Penambahan Berbagai Pengenyal terhadap Karakteristik Kimia dan Sensori Bakso MDM (Mechanically Deboned Meat) Ayam. *Jurnal Ilmiah Pangan Halal*, 5(2), 91–101. <https://doi.org/10.30997/Jiph.V5i2.10645>
- Wahyudi, R., & Maharani, E.T.W., 2017. Profil Protein Pada Ikan Tenggiri dengan Variasi Penggaraman dan Lama Penggaraman dengan Menggunakan Metode SDS-PAGE. *Seminar Nasional Pendidikan, Sains dan Teknologi Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Muhammadiyah Semarang*, 34-41.
- Wijekoon, M. M. J. O., Bhat, R., & Karim, A. A. (2011). Effect of Extraction Solvents on The Phenolic Compounds and Antioxidant Activities of Bunga Kantan (*Etlintera elatior jack*) Inflorescence. *Journal of Food Composition and Analysis*, 24(4–5), 615–619. <https://doi.org/10.1016/J.jfca.2010.09.018>
- Yin, Z., Wang, Z., He, Z., Zeng, M., Qin, F., & Chen, J. (2021). Effect of Particle Size and Microstructure on The Physical Properties of Soybean Insoluble Dietary Fiber In Aqueous Solution. *Food Bioscience*, 41(January), 100898. <https://doi.org/10.1016/J.fbio.2021.100898>

- Yuniati, R., Nurtari, R. Y., Annaafi, A. D., Priguna, T. M., Anggita, V. D., Kusumaningrum, N., Saraswati, I., Muslimin, Putra, F. E., & Hardian. (2024). The Effect of Long Heating and Aciditing Time on Albumin Levels In Snakehead Fish Extract. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 27(2), 104–111. <https://doi.org/10.17844/jphpi.v27i2.46448>
- Zhu, N., Zhang, S. Liang, Zhao, B., Wu, Q. Rong, Zhou, H. Min, Li, S., Qu, C., Sun, A. Dong, & Qiao, X. Ling. (2020). Effect of Processing on Protein Degradation and Quality of Emulsion Sausages. *Food Bioscience*, 37(July). <https://doi.org/10.1016/j.fbio.2020.100685>