DAFTAR PUSTAKA

Aguilar, M.I., 2004, Reversed-Phase High-Performance Liquid Chromatography, *Methods Mol. Biol*, *251*, 9-22.

Ali, A. M., and Ibrahim, A. M. A., 2018, Castor and camphor essential oils alter hemocyte populations and induce biochemical changes in larvae of *Spodoptera littoralis* (Boisduval) (Lepidoptera: Noctuidae). *J. Asia Pac. Entomol.*, *21*(2), 631–637.

Al-Mamun, M. A., Akter, Z., Uddin, M. J., Ferdaus, K. M. K. B., Hoque, K. M. F., Ferdousi, Z., and Reza, M. A., 2016, Characterization and evaluation of antibacterial and antiproliferative activities of crude protein extracts isolatd from the seed of *Ricinus communis* in Bangladesh, *BMC Complement Altern Med.*, *16*(1).

Alu'datt, M. H., Rababah, T., Alhamad, M. N., Alodat, M., Al-Mahasneh, M. A., Gammoh, S., Ereifej, K., Almajwal, A., and Kubow, S., 2017, Molekular characterization and bio-functional property determination using SDS-PAGE and RP-HPLC of protein fractions from two Nigella species. *Food Chem.*, *230*,125–134.

Anjani, K., 2012, Castor genetic resources: A primary gene pool for exploitation, *Ind. Crops Prod.*, (35)1, 1–14.

Arakawa, T., Tsumoto, K., Ejima, D., Kita, Y., Yonezawa, Y., and Tokunaga, M., 2007, Induced binding of proteins by ammonium sulfate in affinity and ionexchange column chromatography, *J. Biochem. Biophys Methods*, *70*(3), 493–498.

Atmawati, D. R., Andriana, Z., Swasono, R. T., and Raharjo, T. J, 2022, Antibacterial Peptide From Solid Phase Extraction (Spe) Fractionation On Trypsin Hydrolysis Of Jatropha (*Ricinus Communis*) Seed Protein Acid Extract. *Rasayan J. Chem.*, *15*(2), 1288–1295.

Audi, J., Belson, M., Patel, M., Schier, J., and Osterloh, J., 2005, Ricin Poisoning AComprehensive Review, *JAMA*, 294.

Bagag, A., Jault, J. M., Sidahmed-Adrar, N., Réfrégiers, M., Giuliani, A., and le Naour, F., 201, Characterization of hydrophobic peptides in the presence of detergent by photoionization mass spectrometry. *PLoS ONE*, *8*(11).

Bahamondes, C., Álvaro, G., Wilson, L., and Illanes, A., 2017, Effect of enzyme load and catalyst particle size on the diffusional restrictions in reactions of synthesis and hydrolysis catalyzed by *α-chymotrypsin* immobilized into glyoxal-agarose. *Process Biochem.*, *53*, 172–179.

Ballatore, M. B., Bettiol, M. del R., vanden Braber, N. L., Aminahuel, C. A., Rossi, Y. E., Petroselli, G., Erra-Balsells, R., Cavaglieri, L. R., and Montenegro, M.A., 2020, Antioxidant and cytoprotective effect of peptides produced by hydrolysis of whey protein concentrate with trypsin. *Food Chem.*, *319*. 75.

Balti, R., Bougherra, F., Bougatef, A., Hayet, B. K., Nedjar-Arroume, N., Dhulster, P., Guillochon, D., and Nasri, M., 2012, Chymotrypsin from the hepatopancreas of cuttlefish (*Sepia officinalis*) with high activity in the hydrolysis of long chain peptide substrates: Purification and biochemical characterisation. *Food Chem.*, *130*(3), 475–484.

Bao, Y., Wang, J., Li, C., Li, P., Wang, S., and Lin, Z., 2016, A preliminary study on the antibacterial mechanism of *Tegillarca granosa* hemoglobin by derived peptides and peroxidase activity. *Fish & Shellfish Immunol.*, *51*, 9–16.

Bauddh, K., Singh, K., Singh, B., and Singh, R. P., 2015, *Ricinus communis*: A robust plant for bio-energy and phytoremediation of toxic metals from contaminated soil. *Ecol. Eng.*, 84, 640–652).

Beaulieu, L., Bondu, S., Doiron, K., Rioux, L. E., and Turgeon, S. L., 2015, Characterization of antibacterial activity from protein hydrolysates of the macroalga *Saccharina longicruris* and identification of peptides implied in bioactivity. *J. Funct. Foods*, *17*, 685–697.

Bender, M. L., Kezdy, F. J., and Wedler, F. C., 1967, a-chymotryprin: Enzyme Concentration and Kinetics, *J. Chem. Educ.*, 84-88.

Bhattarai, A., Niraula, T. P., and Chatterjee, S., 2014, Sodium dodecyl sulphate: A very useful surfactant for Scientific Invetigations, *J. Knowl. Innov.*, 2(1),111-113.

Boone, C., and Adamec, J., 2016, Top-Down Proteomics. *Proteomic Profiling and Analytical Chemistry: The Crossroads: Second Edition*, 175–191.

Brogden, K. A., 2005, Antimicrobial peptides: Pore formers or metabolic inhibitors in bacteria. *Nat. Rev. Microbiol.*, 3(3),238–250.

Brooks, G., Carroll, K. C., Butel, S., Morse, S., dan Mietzner,T., 2012, *Jawetz, Melnick & Adelbergs Medical Microbiology*, 26, McGraw-Hill Publishing, New York.

Büyükkiraz, M.E., and Kesmen, Z., 2022, Antimicrobial peptides (AMPs): A promising class of antimicrobial compounds, *J. Appl. Microbiol.*, 132(3), 1573-1596.

Canene-Adams, K., 2013, Reverse-phase hplc analysis and purification of small molecules, *Methods Enzymol.*, 533, 291–301.

Carr, D., 2002, *HPLC Columns A Guide to the Analysis and Purification of Proteins and Peptides by Reversed-Phase HPLC*, www.harvaardapparatus.com

Carr, D., and Nguyen, R., 2013, *Protein and Peptide Analysis and Purification Reversed Phase Handbook*, 2, Vydac.

Cashman-Kadri, S., Lagüe, P., Fliss, I., and Beaulieu, L., 2022, Determination of the Relationships between the Chemical Structure and Antimicrobial

Activity of a GAPDH-Related Fish Antimicrobial Peptide and Analogs Thereof. *Antibiotics*, *11*(3).

Chambi, H. N. M., Lacerda, R. S., Makishi, G. L. A., Bittante, A. M. Q. B., Gomide, C. A., and Sobral, P. J. A., 2014, Protein extracted from castor bean (*Ricinus* 76 *communis* L.) cake in high pH results in films with improved physical properties. *Ind. Crops Prod.*, *61*, 217–224.

Chen, Y., Guarnieri, M. T., Vasil, A. I., Vasil, M. L., Mant, C. T., and Hodges, R. S., 2007, Role of peptide hydrophobicity in the mechanism of action of α-helical antimicrobial peptides, *Antimicrob. Agents and Chemother.*, *51*(4), 1398–1406.

Danlami, J. M., Arsad, A., and Zaini, M. A. A., 2015, Characterization and process optimization of castor oil (*Ricinus communis* L.) extracted by the soxhlet method using polar and non-polar solvents. *J. Taiwan Inst. Chem. Eng.*, *47*, 99–104.

Danlami, J. M., Zaini, M. A. A., Arsad, A., and Yunus, M. A. C., 2015, A parametric investigation of castor oil (*Ricinus comminis* L) extraction using supercritical carbon dioxide via response surface optimization. *J. Taiwan Inst. Chem. Eng.*, *53*, 32–39.

Diastuti, H., Syah, Y. M., Dewi Juliawaty, L., and Singgih, M., 2014, Antibacterial Activity Of Germacrane Type Sesquiterpenes From *Curcuma Heyneana* Rhizomes, *Indo. J. Chem.*, 14(1).

Doellinger, J., Schneider, A., Hoeller, M., and Lasch, P., 2018, Sample Preparation by Easy Extraction and Digestion (SPEED) - A Universal, Rapid, and Detergent-free Protocol for Proteomics based on Acid Extraction, *Mol. Cell. Proteomics.*

Doellinger, J., Schneider, A., Hoeller, M., and Lasch, P., 2020, Sample preparation by easy extraction and digestion (SPEED) - A universal, rapid, and detergentfree protocol for proteomics based on acid extraction, *Mol. Cell. Proteomics.*, *19*(1), 209–222.

Edwards, I.A., Elliot, A.G., Kavanagh, A.M., Zuegg, J., Blaskovich, M.A.T., and Cooper, M.A., 2016, Contribution of Amphipathicity and Hydrophobicity to the Antimicrobial Activity and Cytotoxicity of *β*-Hairpin peptides, *ACS Infect. Dis.*, 2, 442-450.

Fajr, A., 2019, Hidrolisis protein dari Biji Jarak kepyar (Ricinus communis L) dengan enzim tripsin USP dan uji Aktivitas Antibakteri Peptida yang dihasilkan, *Skripsi*, Program Studi Kimia Fakultas Matematikan dan Ilmu pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.

Farsang, E., Horváth, K., Beck, A., Wang, Q., Lauber, M., Guillarme, D., and Fekete, S., 2020, Impact of the column on effluent pH in cation exchange pH gradient chromatography, a practical study. *J. Chromatogr. A*, *1626*.

Farzaneh, P., Ehsani, M. R., Khanahmadi, M., and Sharifan, A. (2019). Characterization of bio-peptides purified from Terfezia claveryi hydrolysate and their antibacterial effect on raw milk. *LWT-Food Sci. Technol.*, 116.

Feist, P., and Hummon, A. B., 2015, Proteomic challenges: Sample preparation techniques for Microgram-Quantity protein analysis from biological samples, *Int. J. Mol. Sci.*, 16(2), 3537–3563

Feng, A., Jiang, F., Huang, G., and Liu, P., 2020, Synthesis of the cationik fluorescent probes for the detection of anionik surfactants by electrostatic selfassembly, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 224. 77

Firdaus, A., 2022, Identifikasi Peptida Antibakteri Hasil Fraksinasi hidrolisat Tripsin Protein Ekstrak Aseton Biji Jarak Kepyar (Ricinus communis L), *Skripsi*, Program Studi Kimia Fakultas Matematikan dan Ilmu pengetahuan AlamUniversitas Gadjah Mada, Yogyakarta.

Fjell, C. D., Hiss, J. A., Hancock, R. E. W., and Schneider, G, 2012, Designing antimicrobial peptides: Form follows function, *Nat. Rev. Drug Discov.*, 11(1), 37–51).

Franca-Oliveira, G., Fornari, T., and Hernández-Ledesma, B., 2021, A review on the extraction and processing of natural source-derived proteins through ecoinnovative approaches, *Processes*, 9(9), 1-24.

Gilar, M., Olivova, P., Daly, A. E., and Gebler, J. C., 2005, Two-dimensional separation of peptides using RP-RP-HPLC system with different pH in first and second separation dimensions. *J. Sep. Sci.*, *28*(14), 1694–1703.

Guo, M., Shi, T., Duan, Y., Zhu, J., Li, J., and Cao, Y., 2015, Investigation of amino acids in wolfberry fruit (*Lycium barbarum*) by solid-phase extraction and liquid chromatography with precolumn derivatization. *J. Food Compost. Anal.*, 42, 84–90.

Hendayana,S., 2006, *Kimia pemisahan : metode kromatografi dan elektroforesis modern* , Remaja Rosdakarya, Bandung

Hermawan, A., Eliyani, H., and Tyasningsih, W., 2007, *Pengaruh Ekstrak Daun Sirih (Piper betle L.) Terhadap Pertumbuhan Staphylococcus Aureus Dan Escherichia Coli Dengan Metode Difusi Disk*, Fakultas Kedokteran Hewan Universitas Airlangga, Surabaya.

Hewavitharana, G. G., Perera, D. N., Navaratne, S. B., and Wickramasinghe, I., 2020, Extraction methods of fat from food samples and preparation of fatty acid methyl esters for gas chromatography: A review, *Arab. J. Chem.*, 13(8), 6865–6875.

Houen, G., 1996, The solubility of proteins in organic solvents. *Acta Chem. Scand.*, *50*(1), 68–70.

Huan, Y., Kong, Q., Mou, H., and Yi, H., 2020, Antimicrobial Peptides: Classification, Design, Application and Research Progress in Multiple Fields, *Front. Microbiol.,* 11.

Jeewanthi, R. K. C., Lee, N. K., and Paik, H. D., 2015, Improved functional characteristics of whey protein hydrolysates in food industry, *Korean J.Food Sci. Anim. Resour.*, *35*(3), 350–359.

Jelinska, A., Zagozdzon, A., Recki, M. G., Wisniewska, A., Frelek, J., and Holyst, R., 2017, Denaturation of proteins by surfactants studied by the taylor dispersion analysis, *PLoS ONE*, *12*(4).

Jorgensen, J. H., and Ferraro, M. J., 2009, Antimicrobial susceptibility testing: A review of general principles and contemporary practices, *Clin. Infect. Dis.*, 49(11), 1749–1755.

Jung, K. H., Choi, Y. C., Chun, J. Y., Min, S. G., and Hong, G. P., 2014, Effects of concentration and reaction time of Trypsin, Pepsin, and Chymotrypsin on the hydrolysis efficiency of porcine placenta, *Korean J.Food Sci. Anim. Resour*,*34*(2), 151–157.

Kachuk, C., Faulkner, M., Liu, F., and Doucette, A. A., 2016. Automated SDS depletion for mass spectrometry of intact membrane proteins though transmembrane electrophoresis, *J. Proteome Res.*

Kadariya, J., Smith, T. C., and Thapaliya, D., 2014, Staphylococcus aureus and Staphylococcal Food-Borne Disease: An Ongoing Challenge in Public Health, *Biomed Res. Int.*, 2014.

Kanaujia, P. K., Tak, V., Pardasani, D., Gupta, A. K., and Dubey, D. K., 2008, Application of cation-exchange solid-phase extraction for the analysis of amino alcohols from water and human plasma for verification of Chemical Weapons Convention, *J. Chromatogr. A*, *1185*(2), 167–177.

Kawaroe, M., Soedarma, D., Effendi, H., Nurhayati, T., and Safrina Dyah Hardiningtyas, 2010, Antibacterial Activities of Fragmented and Non Fragmented Extracts of Soft Coral Sarcophyton sp. from Pramuka Island, Kepulauan Seribu, Jakarta, *Biota*, *15*(3), 340–347.

Keil, B., 1992, *Specificity of Proteolysis,* Springer-Verlag, Berlin.

Kinsella, J. E., 1979, *Functional Properties of Soy Proteins*, Department of Food Science Cornell University, New York.

Kobbi, S., Nedjar, N., Chihib, N., Balti, R., Chevalier, M., Silvain, A., Chaabouni, S., Dhulster, P., and Bougatef, A., 2018, Synthesis and antibacterial activity of new peptides from Alfalfa RuBisCO protein hydrolysates and mode of action via a membrane damage mechanism against Listeria innocua. *Microb.Pathog.*, 115, 41–49.

Kumar Roy, V., Senthil Kumar, N., and Gurusubramanian, G., 2012, *Proteinsstructure, properties and their separation by SDS-polyacrylamide gel electrophoresis*. www.sciencevision.org

Kyte, J., and Doolittle, R. F., 1982, A Simple Method for Displaying the Hydropathic Character of a Protein, *J. Mol. Biol*., 157.

Langfield, R. D., Scarano, F. J., Heitzman, M. E., Kondo, M., Hammond, G. B., and Neto, C. C., 2004, Use of a modified microplate bioassay method to investigate antibacterial activity in the Peruvian medicinal plant Peperomia galioides, *J. Ethnopharmacol.*, *94*(2–3), 279–281.

Le, C. F., Fang, C. M., and Sekaran, S. D., 2017, Intracellular targeting mechanisms by antimicrobial peptides. *Antimicrob. Agents and Chemother.*, 61(4).

Lee, C. H., 2017, A simple outline of methods for protein isolation and purification. *Endocrinol. Metab.*, 32(1), 18–22.

Leni, G., Soetemans, L., Jacobs, J., Depraetere, S., Gianotten, N., Bastiaens, L., Caligiani, A., and Sforza, S., 2020, Protein hydrolysates from *Alphitobius diaperinus* and *Hermetia illucens* larvae treated with commercial proteases, *J. Insects Food and Feed*, *6*(4), 393–404.

Li, D. F., Ding, H. C., and Zhou, T., 2013, Covalent immobilization of mixed proteases, trypsin and chymotrypsin, onto modified polyvinyl chloride microspheres, *J. Agric. Food Chem.*, *61*(44), 10447–10453.

Lombard-Banek, C., Moody, S. A., and Nemes, P., 2016, High-sensitivity mass spectrometry for probing gene translation in single embryonic cells in the earlyfrog (Xenopus) embryo, *Front. Cell Dev. Biol.*,

Ma, W., Tang, C., and Lai, L., 2005, Specificity of trypsin and chymotrypsin: Loopmotion-controlled dynamic correlation as a determinant. *Biophys. J.*, *89*(2), 1183–1193.

Mant, C. T., Chen, Y., Yan, Z., Popa, T. v, Kovacs, J. M., Mills, J. B., Tripet, B. P., and Hodges, R. S., 2007, HPLC Analysis and Purification of Peptides, *Methods Mol. Biol.*, 386.

Moghadam, M., Salami, M., Mohammadian, M., Emam-Djomeh, Z., Jahanbani, R., and Moosavi-Movahedi, A. A., 2020, Physicochemical and bio-functional properties of walnut proteins as affected by trypsin-mediated hydrolysis. *Food Biosci.*, *36*.

Mojsoska, B., and Jenssen, H., 2015, Peptides and peptidomimetics for antimicrobial drug design. *Pharmaceuticals*, 8(3), 366–415.

Moldoveanu, S. C., and David, V., 2017, *Selection of the HPLC Method in Chemical Analysis*, 279–328. Elsevier.

Müller, T., and Winter, D., 2017, *Systematic Evaluation of Protein Reduction and Alkylation Reveals Massive Unspecific Side Effects by Iodine-containing Reagents Systematic Evaluation of Reduction and Alkylation*, The American Society for Biochemistry and Molekular Biology, Inc.

Nasri, M., 2017, Protein Hydrolysates and Biopeptides: Production, Biological Activities, and Applications in Foods and Health Benefits A Review, *Adv. Food Nutr. Res.*, 81, 109–159.

Niu, L., Yuan, H., Gong, F., Wu, X., and Wang, W. (2018). Protein extraction methods shape much of the extracted proteomes. *Frontiers in Plant Science*, *9*.

Okubo, K., Ikeda, K., Oaku, A., Hiruta, Y., Nagase, K., and Kanazawa, H., 2018, Protein purification using solid-phase extraction on temperature-responsive hydrogel-modified silica beads, *J. Chromatogr. A*, *1568*, 38–48.

Omotehinse, S. A., Bokolo, A., and Okagbare, G. O., 2022, Optimization of Process Conditions affecting Percentage Oil Yield from Big Seeded Varieties of castor-oil plant, (*Ricinus communis*) Seed, *J. Appl. SCI. Environ. Manag.*, *26*(4), 639–646.

O'Neill, jim., 2016, *Tackling Drug-Resistant Infections Globally: Final Report And Recommendations The Review On Antimicrobial Resistance Chaired By Jim O'neill*.

Patel, V. R., Dumancas, G. G., Viswanath, L. C. K., Maples, R., and Subong, B. J. J., 2016, Castor oil: Properties, uses, and optimization of processing parameters in commercial production, *Lipid Insights*, 9(1).

Perdomo, F. A., Acosta-Osorio, A. A., Herrera, G., Vasco-Leal, J. F., MosqueraArtamonov, J. D., Millan-Malo, B., and Rodriguez-Garcia, M. E., 2013, Physicochemical characterization of seven Mexican Ricinus communis L. seeds and oil contents, *Biomass and Bioenergy*, *48*, 17–24.

Perea-Flores, M. J., Chanona-Pérez, J. J., Garibay-Febles, V., Calderón-Dominguez, G., Terrés-Rojas, E., Mendoza-Pérez, J. A., and Herrera-Bucio, R., 2011, Microscopy techniques and image analysis for evaluation of some chemical and physical properties and morphological features for seeds of the castor oil plant (*Ricinus communis*), *Ind. Crops Prod.*,, *34*(1), 1057–1065.

Phong, W. N., Le, C. F., Show, P. L., Lam, H. L., and Ling, T. C., 2016, Evaluation of different solvent types on the extraction of proteins from microalgae, *Chem. Eng. Trans.*, *52*, 1063–1068.

Pizzo, E., Pane, K., Bosso, A., Landi, N., Ragucci, S., Russo, R., Gaglione, R., Torres, M. D. T., de la Fuente-Nunez, C., Arciello, A., di Donato, A., Notomista, E., and di Maro, A., 2018, Novel bioactive peptides from PD-L1/2, a type 1 ribosome inactivating protein from *Phytolacca dioica* L. Evaluation of their antimicrobial properties and anti-biofilm activities, *Biochim. Biophys. Acta Biomembr.*, 1860(7), 1425–1435.

Pratiwi, S. T., 2008, *Mikrobiologi Farmasi*, Erlangga, Jakarta.

Prestinaci, F., Pezzotti, P., and Pantosti, A., 2015, Antimicrobial resistance: A global multifaceted phenomenon, *Pathog. Glob. Health*, 109(7), 309–318.

Purich, D. L., 2010, *An Introduction to Enzyme Science*, *Enzyme Kinetics: Catalysis & Control*, 1–51, Elsevier.

Raharjo, T., Murti Utami, W., Fajr, A., Haryadi, W., and Tri Swasono, R., 2020, Antibacterial Peptides from Tryptic Hydrolysate of Ricinus communis Seed Protein Fractionated Using Cation Exchange Chromatography, *Indonesian J. Pharm.*, 32(1).

Rampadarath, S., and Puchooa, D., 2016, In vitro antimicrobial and larvicidal properties of wild *Ricinus communis* L. in Mauritius, *Asian Pac. J. Trop. Biomed.*, *6*(2), 100–107.

Restiani, R., 2016, Hidrolisis Secara Enzimatis Protein Bungkil Biji Nyamplung (Calophyllum inophyllum) Menggunakan Bromelain, *Biota*, 1(3), 103-110. Amersha, 1999, *Reversed Phase Chromatography Principles and Methods*, Pharmacia Biotech.

Rita, W. S., Swantara, M. D., Asih, I. A. R. A., and Sinarsih, N. K., 2018, Antibacterial Activity Of Samanea Saman Leaf Ethanol Extract Against *Escherichia coli* And *Staphylococcus aureus* And Its Total Flavonoid And Phenolic Contents, *Jurnal Kimia*, 12(2), 121-127.

Román-Figueroa, C., Cea, M., Paneque, M., and González, M. E., 2020, Oil content and fatty acid composition in castor bean naturalized accessions under mediterranean conditions in Chile, *Agronomy*, *10*(8).

Sahidi, F., 2005, *Bailey's Industrial Oil and Fat Products*, 6th ed, John Wiley & Sons, Inc., Publication, Canada.

Sani, M. A., and Separovic, F., 2016, How Membrane-Active Peptides Get into Lipid Membranes, *Acc. Chem. Res.*, *49*(6), 1130–1138.

Sarkar, T., Chetia, M., and Chatterjee, S., 2021, Antimicrobial Peptides and Proteins: From Nature's Reservoir to the Laboratory and Beyond, *Front. Chem.*, 9,

Sbihi, H. M., Nehdi, I. A., Mokbli, S., Romdhani-Younes, M., and Al-Resayes, S. I., 2018, Hexane and ethanol extracted seed oils and leaf essential compositions from two castor plant (*Ricinus communis* L.) varieties, *Ind. Crops Prod.*, *122*, 174–181.

Sbroggio, M. F., Montilha, M. S., Figueiredo, V. R. G. de, Georgetti, S. R., and Kurozawa, L. E., 2016, Influence of the degree of hydrolysis and type of enzyme on antioxidant activity of okara protein hydrolysates. *Food SCI Technol.*, *36*(2), 375–381.

Schieltz, D. M., McGrath, S. C., McWilliams, L. G., Rees, J., Bowen, M. D., Kools, J. J., Dauphin, L. A., Gomez-Saladin, E., Newton, B. N., Stang, H. L., Vick, M. J., Thomas, J., Pirkle, J. L., and Barr, J. R., 2011, Analysis of active ricin and castor bean proteins in a ricin preparation, castor bean extract, and surface swabs from a public health investigation, *Forensic Sci. Int.*, 209(1–3), 70–79.

Schlegel, H. G. and K. Schmidt, 1994, *Microbiology Six Edition. (*Terjemahan Mikrobiologi Umum edisi Keenam diterjemahkan Oleh Tedjo Baskoro). Gajah Mada University Press. Yogyakarta

Schmid, M., Prinz, T. K., Stäbler, A., and Sängerlaub, S., 2017, Effect of sodium sulfite, sodium dodecyl sulfate, and urea on the molekular interactions and properties of whey protein isolat-based films. *Front. Chem.*

Schmidtchen, A., Pasupuleti, M., and Malmsten, M., 2014, Effect of hydrophobic modifications in antimicrobial peptides, *Adv. Colloid Interface Sci.*, 205, 265–274.

Sebaugh, J. L., 2011, Guidelines for accurate EC50/IC50 estimation. *Pharm. Stat.*, *10*(2), 128–134.

Song, G., Hsu, P. Y., and Walley, J. W., 2018, Assessment and Refinement of Sample Preparation Methods for Deep and Quantitative Plant Proteome Profiling, *Proteomics, 18*(17).

Song, W., Kong, X., Hua, Y., Chen, Y., Zhang, C., and Chen, Y, 2020, Identification of antibacterial peptides generated from enzymatic hydrolysis of cottonseed proteins, *LWT-Food Sci. Technol.*, *125*.

Sornwatana, T., Roytrakul, S., Wetprasit, N., and Ratanapo, S., 2013, Brucin, an antibacterial peptide derived from fruit protein of fructus bruceae, *Brucea javanica* (L.) Merr. *Lett. Appl. Microbiol.*, *57*(2), 129–136.

Srinivasan, J. R., 2012, Serin Protease (Chymotrypsin) From Nocardiopsis Prasina Expressed In *Bacillus licheniformis, Chemical and Technical Assessment*, 76th *JECFA*.

Stirpe, F., and Barbieri, L. 1986, Ribosome-inactivating proteins up to date, *FEBS* letters, 195*(1-2)*.

Tapal, A., and Tiku, P. K., 2018, *Nutritional and nutraceutical improvement by enzymatic modification of food proteins, Enzymes in Food Biotechnology: Production, Applications, and Future Prospects,* 471–481, Elsevier.

Tavano, O. L., 2013, Protein hydrolysis using proteases: An important tool for food biotechnology, *J. Mol. Catal. B Enzym.*, 90, 1–11.

Tendencia, E. A., 2004, *Laboratory Manuals Disk diffusion method,* Aquaculture Department Southeast Asian Fisheries Development Center, Philippines.

Ten-Doménech, I., Simó-Alfonso, E. F., and Herrero-Martínez, J. M., 2017, Isolation of human milk whey proteins by solid phase extraction with a polymeric material modified with gold nanoparticles, *Microchem. J.*, *133*, 320–326.

Thermo, S., 2014, *Sample Preparation Method*, MZ-Analysentechnik GmbH, Germany.

Valgas, C., Machado De Souza, S., Elza, Smânia, F. A., and Smânia, A., 2007, Screening Methods To Determine Antibacterial Activity Of Natural Products, *Braz. J. Microbiol.*, *38*, 369–380.

Vogelsang-O'dwyer, M., Sahin, A. W., Arendt, E. K., and Zannini, E., 2022, Enzymatic Hydrolysis of Pulse Proteins as a Tool to Improve TechnoFunctional Properties, *Foods*, 11(9).

Wallace,G. M. A., and McCord, J. P., 2020, High-resolution mass spectrometry. *Breathborne Biomarkers and the Human Volatilome*, 253–270, Elsevier.

Wang, X., Mishra, B., Lushnikova, T., Narayana, J. L., and Wang, G., 2018, Amino Acid Composition Determines Peptide Activity Spectrum and Hot-Spot-Based Design of Merecidin, *Adv. Biosyst.*, *2*(5).

Wiśniewski, J. R., 2016, Quantitative Evaluation of Filter Aided Sample Preparation (FASP) and Multienzyme Digestion FASP Protocols. *Anal. Chem.*, *88*(10), 5438–5443.

Wu, I. L., Turnipseed, S. B., Andersen, W. C., and Madson, M. R., 2020, Analysis of peptide antibiotic residues in milk using liquid chromatography-high resolution mass spectrometry (LC-HRMS), *Food Addit. Contam. Part A Chem. Anal. Control Expoand Risk Assess*, *37*(8), 1264–1278.

Wu, X., Gong, F., and Wang, W., 2014, Protein extraction from plant tissues for 2DE and its application in proteomic analysis. *Proteomics*, *14*(6), 645–658.

Wu, X., Xiong, E., Wang, W., Scali, M., and Cresti, M., 2014, Universal sample preparation method integrating trichloroacetic acid/acetone precipitation with phenol extraction for crop proteomic analysis, *Nature Protocols*, *9*(2), 362–374.

Yeboah, A., Ying, S., Lu, J., Xie, Y., Amoanimaa-Dede, H., Boateng, K. G. A., Chen, M., and Yin, X., 2021, Castor oil (*Ricinus communis*): A review on the chemical composition and physicochemical properties. *Food SCI Technol.*, *41*, 399–413.

Yusuf, A. K., Mamza, P. A. P., Ahmed, A. S., and Agunwa, U., 2015, Extraction And Characterization Of Castor Seed Oil From Wild Ricinus Communis Linn, *Int. J. Enciron. Sci. Technol.*, 4(5), 1392-1404.

Zahedifard, F., Lee, H., No, J. H., Salimi, M., Seyed, N., Asoodeh, A., and Rafati, S., 2020, Comparative study of different forms of Jellein antimicrobial peptide on Leishmania parasite, *Exp. Parasitol.*, *209*.

Zheng, L., Zhang, T., Xie, L., Karrar, E., Shi, L., Jin, J., Wang, X., and Jin, Q., 2020, Physicochemical characteristics of Actinostemma lobatum Maxim. kernel oil by supercritical fluid extraction and conventional methods, *Ind. Crops Prod.*, *152*.

Zhou, J. Y., Dann, G. P., Shi, T., Wang, L., Gao, X., Su, D., Nicora, C. D., Shukla, A. K., Moore, R. J., Liu, T., Camp, D. G., Smith, R. D., and Qian, W. J.,