

DAFTAR PUSTAKA

- American Society of Hematology. (2010). Blood Clots. Retrieved from American Society of Hematology: <https://www.hematology.org/education/patients/blood-clots>
- Bio-Rad1. (2022). A Guide to Polyacrylamide Gel Electrophoresis and Detection. Retrieved from BioRad: https://www.bio-rad.com/webroot/web/pdf/lsr/literature/Bulletin_6040A.pdf
- Bio-Rad2. (2023). Acrylamide Polymerization – A Practical Approach. Retrieved from Bio-Rad: https://www.bio-rad.com/webroot/web/pdf/lsr/literature/Bulletin_1156.pdf
- Borawski J., & Myśliwiec M. (2001) Plasma Fibrinogen Level Is an Important Determinant of Prolonged Euglobulin Clot Lysis Time in Hemodialysis Patients. *Clinical and Applied Thrombosis/Hemostasis*. ;7(4):296-299. DOI:10.1177/107602960100700408
- Buttle, D. J., & Mort, J. S. (2013). Cysteine Proteases. *Encyclopedia of Biological Chemistry*. <https://doi.org/10.1016/B978-0-12-378630-2.00009-8>
- Caprette, D. R. (2015). Hartree-Lowry and Modified Lowry Protein Assays. Retrieved from Rice University: <http://www.ruf.rice.edu/~bioslabs/methods/protein/lowry.html>
- Chaudhry, R., Usama, S. M., & Babiker, H. M. (2023). Physiology, Coagulation Pathways. In StatPearls. StatPearls Publishing. Retrieved from NCBI: <https://www.ncbi.nlm.nih.gov/books/NBK482253/>
- Cellai, A. P., Lami, D., Magi, A., Liotta, A. A., Rogolino, A., Antonucci, E., Bandinelli, B., Abbate, R., & Prisco, D. (2008). Assessment of Fibrinolytic Activity by Measuring the Lysis Time of a Tissue Factor-Induced Clot: A Feasibility Evaluation. *Clinical and Applied Thrombosis/Hemostasis*, 16(3), 337–344. DOI: 10.1177/1076029608325542
- Elnager, A., Abdullah, W. Z., Hassan, R., Idris, Z., Wan Arfah, N., Sulaiman, S. A., & Mustafa, Z. (2014). *In vitro* Whole Blood Clot Lysis for Fibrinolytic Activity Study using D-dimer and Confocal Microscopy. *Advances in Hematology*, 1–8. DOI: 10.1155/2014/814684
- Errasti, M. E., Prospitti, A., Viana, C. A., Gonzalez, M. M., Ramos, M. V.,

Rotelli, A. E., & Caffini, N. O. (2016). Effects on fibrinogen, Fibrin, and Blood Coagulation of Proteolytic Extracts from Fruits of *Pseudananas macrodontes*, *Bromelia balansae*, and *B. Hieronymi* (Bromeliaceae) in Comparison with Bromelain. *Blood Coagulation & Fibrinolysis*, 27(4), 441–449. DOI:10.1097/mbc.0000000000000531

Ibrahim, A. H., Hasan, H., & Pakaya, M. Sy. (2021). Skrining Fitokimia Dan Uji Daya Hambat Ekstrak Daun Jahe Merah *Zingiber officinale* Skrining Fitokimia dan Uji Daya Hambat Ekstrak Daun Jahe Merah (*Zingiber officinale* var *rubrum*) Terhadap Bakteri *Staphylococcus Epidermidis* dan *Escherichia coli*. <https://ejournal.ung.ac.id/index.php/ijpe/article/download/10547/3304>. DOI: 10.37311/ijpe.v1i2.10547

Jasuja, R., Passam, F. H., Kennedy, D. R., Kim, S. H., Hessem, L. van, Lin, L., Bowley, S. R., Joshi, S. S., Dilks, J. R., Furie, B., Furie, B. C., & Flaumenhaft, R. (2012). Protein Disulfide Isomerase Inhibitors Constitute a New Class of Antithrombotic Agents. *The Journal of Clinical Investigation*. <https://www.jci.org/articles/view/61228>. <https://doi.org/10.1172/JCI61228>

Khan, A. R., & James, M. N. (1998). Molecular Mechanism for The Conversion of Zymogens to Active Proteolytic Enzymes. *Protein Science : A Publication of The Protein Society*. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2143990/> <https://doi.org/10.1002%2Fpro.5560070401>

Kowalski, E., Kopec, M., & Niewiarowski, S. (1959). An Evaluation of The Euglobulin Method for The Determination of Fibrinolysis. *Journal of Clinical Pathology*, 12(3), 215–218. DOI: 10.1136/jcp.12.3.215

LaPelusa, A., & Dave, H. D. (2020). *Physiology, Hemostasis*. PubMed; StatPearls Publishing. Retrieved from NCBI: <https://www.ncbi.nlm.nih.gov/books/NBK545263>

Lovrien, R., & Matulis, D. (2005). Assays For Total Protein. *Current Protocols in Microbiology*, 00(1). DOI: 10.1002/9780471729259.mca03as00

Marx, Wolfgang., McKavanagh, Daniel., McCarthy, L, Alexandra., Bird, Robert., Ried, Karin., Chan, Alexandre., & Isenring, Liz. (2015) “The Effect of Ginger (*Zingiber officinale*) on Platelet Aggregation: A Systematic Literature Review.” *PLOS ONE*, vol. 10, no. 10, pe0141119. www.ncbi.nlm.nih.gov/pmc/articles/PMC4619316/, <https://doi.org/10.1371/journal.pone.0141119>.

Napolitano, F., & Montuori, N. (2021). The Role of The Plasminogen Activation System in *Angiodema*: Novel Insights on The Pathogenesis. *Journal of Clinical Medicine* 10, no. 3: 518. <https://doi.org/10.3390/jcm10030518>

Neergaard-Petersen, S., Mogensen, V. B., Veirup, M. S., Grove, E. L., Kristensen, S. D., & Hvas, A.-M. (2018). Fibrin Clot Lysis Assay: Establishment of a Reference Interval. *Thrombosis Research*, 167, 9–11. DOI: 10.1016/j.thromres.2018.04.025

Negi, J. S., Singh, P., Joshi, G. P., Rawat, M. S., & Bisht, V. K. (2010). Chemical Constituents of Asparagus. *Pharmacognosy Reviews*, 4(8), 215–220. <https://doi.org/10.4103/0973-7847.70921>

Park, S. E., Li, M. H., Kim, J. S., Sapkota, K., Kim, J. E., Choi, B. S., Kim, S. J. (2007). Purification and Characterization of a Fibrinolytic Protease from a Culture Supernatant of *Flammulina Velutipes Mycelia*. *Bioscience, Biotechnology, and Biochemistry*, 71(9), 2214–2222. <https://doi.org/10.1271/bbb.70193>

Pegiou, E., Mumm, R., Acharya, P., de Vos, R. C. H., & Hall, R. D. (2019). Green and White Asparagus (*Asparagus officinalis*): A Source of Developmental, Chemical and Urinary Intrigue. *Metabolites*, 10 (1), 17. <https://doi.org/10.3390/metabo10010017>

Pinontoan, R., Elvina, Sanjaya, A., & Jo, J. (2021). Fibrinolytic of *Bacillus subtilis* G8 Isolated from Natto. *Bioscience of Microbiota, Food and Health*, 40(3), 144–149. <https://doi.org/10.12938/bmfh.2020-071>

Pinontoan, R., Purnomo, J. S., Avissa, E. B., Tanojo, J. P., Djuan, M., Vidian, V., Samantha, A., Jo, J., & Steven, E. (2024). *In-vitro* and *In-silico* Analyses of The Thrombolytic Potential of Green Kiwifruit. *Scientific Reports*, 14(1), 13799. <https://doi.org/10.1038/s41598-024-64160-y>

Pinontoan, R., Leke, P. A. I., Lesmana, J. A., Purnomo, J. S., Dikson, D., & Samantha, A. (2024). *In vitro* Assesment of Thrombolytic Potential of Red and White Ginger (*Zingiber officinale*). *Functional Foods in Health and Disease*; 14(1): 62-73. <https://doi.org/10.31989/ffhd.v14i1.1245>

Prasad, S., Kashyap, R. S., Deopujari, J. Y., Purohit, H. J., Taori, G. M., & Dagainawala, H. F. (2006). Development of an *In vitro* Model to Study Clot Lysis Activity of Thrombolytic Drugs. *Thrombosis Journal*, 4(1). DOI:10.1186/1477-9560-4-14

Priskila C, Vidian V, Sanjaya A, Sugata M, Pinontoan R. (2022). Thrombolytic Potential in Bacteria Isolated from Fermented Durian

Tempoyak. *Biodiversitas* 23: 5731-5737.
<https://doi.org/10.13057/biodiv/d231124>

Robinson, P. K. (2015). Enzymes: Principles and Biotechnological Applications. *Essays in Biochemistry*, 59, 1–41.
<https://doi.org/10.1042/bse0590001>

Singh, R., Gautam, P., Sharma, C., & Osmolovskiy, A. (2023). Fibrin and Fibrinolytic Enzyme Cascade in Thrombosis: Unravelling The Role. *Life* (Basel,Switzerland), 13(11), 2196.
<https://doi.org/10.3390/life13112196>

Smith, A. A., Jacobson, L. J., Miller, B. I., Hathaway, W. E., & Manco-Johnson, M. J. (2003). A New Euglobulin Clot Lysis Assay for Global Fibrinolysis. *Thrombosis Research*, 112(5–6), 329–337. DOI: 10.1016/j.thromres.2004.01.00

Thermofisher. (2009). Acetone Precipitation of Proteins. Retrieved from Thermo Fisher Scientific:<https://assets.thermofisher.com/TFS-Assets/LSG/Application-Notes/TR0049-Acetone-precipitation.pdf>

Tortora, G. J., Derrickson, B. H., Burkett, B., Dye, D., Cooke, J., Diversi, T., McKean, M., Mellifont, R., Samalia, L., & Peoples, G. (2016). Principles of Anatomy and Physiology. *Australia: John Wiley & Sons*. Retrieved from Wiley Direct: <http://www.wileydirect.com.au/buy/principles-of-anatomy-physiology-1st-asia-pacific-edition/>

Walsh, C. T., & Moore, B. S. (2019). Enzymatic Cascade Reactions in Biosynthesis. *Angewandte Chemie (International ed. in English)*, 58(21), 6846–6879. <https://doi.org/10.1002/anie.201807844>

World Health Organization. (2021). Cardiovascular Diseases (CVDs). Retrieved from World Health Organization: [https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds))

Wilson, J. H., & Hunt, T. (2002). *Molecular Biology of The Cell, 4th Edition: A Problems Approach*. Garland Science. Retrieved from NCBI: <https://www.ncbi.nlm.nih.gov/books/NBK21054/>

Wilkesmann, J., & Kurz, L. (2017). Zymography. *Methods in Molecular Biology*. DOI: 10.1007/978-1-4939-7111-4

Yang, H. R., Hwang, D. H., Prakash, R. L. M., Kim, J.-H., Hong, I.-H., Kim, S., Kim, E., & Kang, C. (2022). Exploring The Fibrin(ogen)olytic, Anticoagulant, and Antithrombolytic Activites of

Natural Cysteine Protease (Fifi) with The *K-Carrageenan*-induced Rat Tail Thrombosis Model. *Nutrients*, 14(17), 3552. <https://doi.org/10.3390/nu14173552>

Yonezawa, H., Kaneda, M., & T, U. (1998). A Cysteine Protease from Young Stems of Asparagus: Isolation, Properties, and Substrate Specificity. *Bioscience, Biotechnology, and Biochemistry*, 62(1), 28–33. <https://doi.org/10.1271/bbb.62.28>

