

## DAFTAR PUSTAKA

- Akhtar, T., Hoq, M., & Mazid, M. (2018). Bacterial proteases as thrombolytics and fibrinolytics. *Dhaka University Journal of Pharmaceutical Science*, 16(2), 255. doi: 10.3329/dujps.v16i2.35265
- Ali, R., Hossain, M, S., Islam, A., Arman, S, I., Raju, S, G., Dasgupta, P., & Noshin, T, F. (2014). Aspect of thrombolytic therapy: a review. *The Scientific World Journal*, 2014, 1-8. doi: 10.1155/2014/586510
- Alkarithi, G., Duval, C., Shi, Y., Macrae, F, L., Ariëns, R, A, S. (2021). Thrombus structural composition in cardiovascular disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 41(9), 2370-2383. doi: <https://doi.org/10.1161/ATVBAHA.120.315754>
- Allensandra, B. (1997). Fibrin(ogen) degradation and clot lysis by fibrinolytic matrix metalloproteinase. *Europe Pubmed Central*.
- Beveridge, T, J. (2001). Use of the gram stain in microbiology. *Biotech Histochem*, 76(3), 8-111.
- Biglu, M, H., Ghavami, M., & Biglu, S. (2016). Cardiovascular disease in the mirror of science. *Journal of Cardiovascular and Thoracic Research*, 8(4), 158-163. doi: 10.15171/jcvtr.2016.32
- Biology LibreText. (2021). *Bacterial Colony Morphology*. Retrieved from: [https://bio.libretexts.org/Learning\\_Objects/Laboratory\\_Experiments/Microbiology\\_Labs/Microbiology\\_Labs\\_I/08%3A\\_Bacterial\\_Colony\\_Morphology](https://bio.libretexts.org/Learning_Objects/Laboratory_Experiments/Microbiology_Labs/Microbiology_Labs_I/08%3A_Bacterial_Colony_Morphology) (27 Juli 2022)
- Booth, N, A., Walker, E., Maughan, R., & Bennett, B. (1987). Plasminogen activator in normal subjects after exercise and venous occlusion: t-PA circulates as complex with c1-inhibitor and pai-1. *Blood*, 69(6), 1600-1604. doi: 10.1182/blood.V69.6.1600.1600
- Centers for Disease Control and Prevention. (2022). *Colonial Characteristics*. Retrieved from CDC: [https://www.cdc.gov/labtraining/docs/job\\_aids/biochemicals\\_gram\\_positive\\_organism\\_id/Colonial\\_Characteristics\\_Branded\\_508.pdf](https://www.cdc.gov/labtraining/docs/job_aids/biochemicals_gram_positive_organism_id/Colonial_Characteristics_Branded_508.pdf) (27 Juli 2022)
- Chakraborty, S, P., Mahapatra, S, K., & Roy, S. (2011). Biochemical characters and antibiotic susceptibility of staphylococcus aureus isolates. *Asian Pacific Journal of Tropical Biomedicine*, 1(3), 212-216. doi: 10.1016/S2221-1691(11)60029-4

- Collen, D., & Lijnen, H. R. (2009). The tissue-type plasminogen activator story. *Journal of The American Heart Association*, 29(8), 1151-1155. doi: 10.1161/ATVBAHA.108.179655
- Collin Collage. (2022). *Endospore Stain*. Retrieved from: <http://faculty.collin.edu/dcain/CCCCD%20Micro/endospore.htm> (22 Juli 2022)
- Diwan, D., Usmani, Z., Sharma, M., Welson, J. W., Thakur, V. K., Christie, G., Molina, G., & Gupta, V. K. (2021). Thrombolytic enzymes of microbial origin: a review. *International Journal of Molecular Science*, 22(19), 10468. doi: <https://doi.org/10.3390/ijms221910468>
- Gaffney, P. J. (1975). Distinction between fibrinogen and fibrin degradation products in plasma. *Clinica Chimica Acta*, 65(1), 109-115. doi: 10.1016/0009-8981(75)90341-1
- Goldhaber, S. Z., & Correnti, N. (2002). Treatment of blood clots. *Circulations*, 106(20), e138-e140. doi: <https://doi.org/10.1161/01.CIR.0000038923.61628.3D>
- Hamdani, S., Asstiyani, N., Astriany, D., Singgih, M., & Ibrahim, S. (2019). Isolation and identification of proteolytic bacteria from pig sludge and protease activity determination. *International Conference on Green Agro-industry and Bioeconomy*, 230, 1-7. doi: 10.1088/1755-1315/230/1/012095
- Hassan, B. A. (2018). Carbohydrate fermentation test & starch hydrolysis test. *Project*. doi: 10.13140/RG.2.2.21943.57762
- Huang, S., Pan, S., Chen, G., Huang, S., Zhang, Z., Li, Y., & Liang, Z. (2013). Biochemical characteristic of a fibrinolytic enzyme purified from a marine bacterium, *bacillus subtilis* hqs-3. *International Journal of Biological Macromolecules*, 62, 124-130. doi: 10.1016/j.ijbiomac.2013.08.048
- Hurley, R. (2007). Anemia and red blood cell disorders. *Immigrant Medicine*, 611-623. doi: 10.1016/B978-0-323-03454-8.50050-4
- Ittyerah, T. R., Weidner, N., Wochner, R. D., & Sherman, L. A. (1979). Effect of fibrin degradation products and thrombin on fibrinogen synthesis. *British Journal of Haematology*, 43, 661-668. doi: 10.1111/j.1365-2141.1979.tb03799.x
- Jeong, Y. K., Park, J. U., Baek, H., Park, S. H., Kong, I. S., Kim, D. W., & Joo, W. H. (2001). Purification and biochemical characterization of a fibrinolytic enzyme from *bacillus subtilis* bk-17. *World Journal of Microbiology and Biotechnology*, 17(1), 89-92. doi: 10.1023/a:1016685411809

- Jilani, T., N, & Siddiqui. (2022). *Tissue Plasminogen Activator*. Treasure Island (FL): StatPearls Publishing.
- Kartika, A, I., Darmawati, S., & Ethica, S, N. (2019). Isolation and identification of molecular bacteria staphylococcus epidermidis on rusip udang windu (Penaeus monodon) 24 hour post-fermentation based on gen 16s rRNA sequence. *Prosiding Mahasiswa Seminar Nasional Uminus*, 2, 208-216.
- Kietsiriroje, N., Ariëns, R, A, S., & Ajjan R, A. (2021). Fibrinolysis in acute and chronic cardiovascular disease, *Seminars in Thrombosis and Hemostasis*. doi: 10.1055/s-0040-1718923
- Lähteenmäki, K., Kuusela, P., & Korhonen, T, K. (2001). Bacterial plasminogen activators and receptors. *FEMS Microbiology Reviews*, 25(5), 531-552. doi: 10.1016/S0168-6445(01)00067-5
- Lee, S., Lee, J., Jin, Y., Jeong, J., Chang, Y, H., Lee, Y., Jeong, Y, & Kim, M. (2017). Probiotic characteristic of bacillus strains isolated from korean traditional soy sauce. *LWT-Food Science and Technology*, 79, 518-524. doi: 10.1016/j.lwt.2016.08.040
- Lin, H., Xu, L., & Yu, S. (2020). Therapeutics targeting fibrinolytic system. *Experimental & Molecular Medicine*, 52, 367-379. doi: <https://doi.org/10.1038/s12276-020-0397-x>
- Longstaff, C. (2018). Measuring fibrinolysis: from research to routine diagnostic assays. *Journal of Thrombosis and Haemostasis*, 16(4), 652-662. doi: 10.1111/jth.13957
- Mahmood, N., Mihalcioiu, C., & Rabbani, S, A. (2018). Multifaced role of the urokinase-type plasminogen activator (uPA) and its receptor (uPAR): diagnostic, prognostic and therapeutic applications. *Frontiers in Oncology*, 8. doi: <https://doi.org/10.3389/fonc.2018.00024>
- Maron, B, A., & Loscalzo, J. (2007). The role of platelets in fibrinolysis. *Platelets*, 415–430. doi:10.1016/b978-012369367-9/50783-7
- McDonagh, J., Messel, H., McDonagh, R, P., Murano, G., & Blombäck. (1972). Molecular weight analysis of fibrinogen and fibrin chains by an improved sodium dodecyl sulfate gel electrophoresis method. *Biochimica et Biophysica Acta (BBA)- Protein Structure*, 257(1), 135-142. doi: 10.1016/0005-2795(72)90262-0

Microbugz. (2022). *Endospore Stain*. Retrieved from: [https://www.austincc.edu/microbugz/endospore\\_stain.php](https://www.austincc.edu/microbugz/endospore_stain.php) (22 Juli 2022)

Millán, M., Dorado, L., & Dávalos, A. (2010). Fibrinolytic therapy in acute stroke. *Current Cardiology Reviews*, 6(3), 218-226. doi: 10.2174/157340310791658758

Moore, H. B., Moore, E. E., Gonzales, E., Hansen, K. C., Dzieciatkowska, M., Chapman, M. P., Sauaia, A., West, B., Banerjee, A., Silliman, C. C. (2015). Hemolysis exacerbates hypofibrinolysis, whereas plateletosis shuts down fibrinolysis: evolving concepts of the spectrum of fibrinolysis in response to severe injury. *Shock*, 43(1), 39-46. doi: 10.1097/SHK.0000000000000245

Mormak, D. A., & Casida, L. E. (1985). Study of bacillus subtilis endospore in soil by use of a modified endospore stain. *Applied and Environmental Microbiology*, 49(6), 1356-1360.

Mulaw, G., Tessema, T. S., Muleta, D., & Tesfaye, A. (2019). In vitro of probiotic properties of lactic acid bacteria isolated from some traditionally fermented Ethiopian food products. *International Journal of Microbiology*, 2019, 7179514. doi: 10.1155/2019/7179514

Nascimento, W. C. A., & Martins, M. L. L. (2006). Studies on the stability of protease from bacillus sp. and its compatibility with commercial detergent. *Brazilian Journal of Microbiology*, 37, 307-311. doi: 10.1590/S1517-83822006000300020

Oklu, R. (2017). Thrombosis. *Cardiovascular Diagnosis & Therapy*, 7(3), S131-S133. doi: 10.21037/cdt.2017.11.08

Peng, Y., Huang, Q., Zhang, R., & Zhang, Y. (2003). Purification and characterization of a fibrinolytic enzyme produced by bacillus amyloliquefaciens DC-4 screened from douchi, a traditional Chinese soybean food. *Comparative Biochemistry and Physiology*, 134(1), 45-52. doi: 10.1016/s1096-4959(02)00183-5

Pinontoan, R., Elvina, Sanjaya, A., & Jo, J. (2021). Fibrinolytic characteristics of bacillus subtilis g8 isolated from natto. *Bioscience of Microbiota, Food, and Health*, 40(3), 144-149. doi: 10.12938/bmfh.2020-071

Prasad, S., Kashyap, R. S., Deopujari, J. Y., Purohit, H. J., Taori, G. M., & Dagnawala, H. F. (2006). Development of an in vitro model to study clot lysis activity of thrombolytic drugs. *Thrombosis Journal*, 4, 14. doi: <https://doi.org/10.1186/1477-9560-4-14>

Puspita, I. D., Wardani, A., Puspitasari, O. A., Nugraheni, P. S., Putra, M. P., Pudjiraharti, S., & Ustadi. (2017). Occurrence of chitinolytic bacteria in shrimp

- rusip and measurement of their chitin-degrading enzyme activities. *Biodiversitas*, 18(3), 1275-1281. doi: 10.13057/biodiv/d180354
- Sartori, M, R., & Cella, G. (2004). Tissue plasminogen activator (t-PA). *Encyclopedia Endocrine Disease*, 581-585. doi: <https://doi.org/10.1016/B0-12-475570-4/01314-7>
- Sharma, M. (2019). Transdermal and intravenous nano drug delivery systems: present and future. *Applications of Targeted Nano Drugs and Delivery System*, 499-550. doi: 10.1016/B978-0-12-814029-1.00018-1
- Shaw, M, A., Kombrinck, K, W., McElhinney, K, E., Sweet, D, R., Flick, M, J., Palumbo, J, S., Cheng, M., Esmon, N, L., Esmon, C, T., Brill, A., Wagner, D, D., Degen, J, L., & Mullins, E, S. (2016). Limiting prothrombin activation to meizothrombin is compatible with survival but significantly alters hemostasis in mice. *Journal of The American Society of Hematology*, 128(5), 721-731. doi: 10.1182/blood-2015-11-680280
- Stewart, J., Manmathan, G., & Wilkinson, P. (2017). Primary prevention of cardiovascular disease: a review of contemporary guidance and literature. *JRSM Cardiovascular Disease*, 6, 1-9. doi: 10.13057/biodiv/d180354
- Takada, A., & Takada, Y. (1988). Physiology of plasminogen: with special reference to activation and degradation. *Pathophysiology of Haemostasis and Thrombosis*, 18(1), 25-35. doi: 10.1159/000215834
- University of Wyoming. (2022). *Starch Hydrolysis Test*. Retrieved from UW Navigation:  
[https://www.uwyo.edu/molb2021/additional\\_info/summ\\_biochem/starch.html](https://www.uwyo.edu/molb2021/additional_info/summ_biochem/starch.html)  
(19 Juli 2022)
- Walker, J, B., & Nesheim, M, E. (1999). The molecular weights, mass distribution, chain composition, and structure of soluble fibrin degradation products released from from fibrin a fibrin clot perfused with plasmin. *Journal of Biological Chemistry*, 274(8), 5201-5212. doi: 10.1074/jbc.274.8.5201
- Weisel, J, W., & Litinov R, I. (2014). Mechanisms of fibrinolysis and basic principles of management. *Hemostasis and Thrombosis*, 169-185. doi: 10.1002/9781118833391.ch13
- Wongnam, W., Mitani, T., Katayama, S., Nakamura, S., & Yongsawatdigul, J. (2020). Production and characterization of chicken blood hydrolysate with antihypertensive properties. *Poultry Science*, 99, 5163-5174. doi: 10.1016/j.psj.2020.07.006

World Health Organization. (2022). *Cardiovascular Diseases*. Retrieved from: [https://www.who.int/health-topics/cardiovascular-diseases#tab=tab\\_1](https://www.who.int/health-topics/cardiovascular-diseases#tab=tab_1) (4 Juli 2022)

Wu, K., & Yang, T. (2020). A novel improved gram staining method based on capillary tube. *Polish Journal of Microbiology*, 69(4), 503-508. doi: 10.33073/pjm-2020-043

Yatsenko, T. A., Rybachuk, V. M., Yusova, O. I., Kharchenko, S. M., & Grinenko, T. V. (2016). Effect of fibrin degradation products on fibrinolytic process. *Ukrainian Biochemical Journal*, 88, 16-24. doi: <http://dx.doi.org/10.15407/ubj88.02.016>

