

DAFTAR PUSTAKA

- Aisyah, S.N., Maldoni, J., Sulastri, I., Suryati, W. and Marlisa, Y., *et al.*, (2019). Unraveling the optimal culture condition for the antifungal activity and IAA production of phylloplane *Serratia plymuthica*. *Plant Pathology Journal*, 18, pp.31–38. Available at : <https://doi=ajppaj.2017.139.147>.
- Alter, B.P. (2007) Diagnosis, Genetics, and Management of Inherited Bone Marrow Failure Syndromes, *Hematology*, 2007(1), pp. 29–39. Available at: <https://doi.org/10.1182/asheducation-2007.1.29>.
- Ameen, F. Wafa, A. Alshehri, N.M. Enazi, A. Almansob, A. (2020). L-Asparaginase activity analysis, ansZ gene identification and anticancer activity of a new *Bacillus subtilis* isolated from sponges of the Red Sea, *Bioscience, Biotechnology, and Biochemistry*, 84(12), pp. 2576–2584. Available at: <https://doi.org/10.1080/09168451.2020.1807310>.
- Aprigiyonies, F.E. (2011) Kloning dan Sekuensing Gen *L-Asparaginase* yang berasal dari bakteri (*Erwinia raphontici*) dan (*Bacillus circulans*) Di (*E. Coli*). Skripsi. Fakultas MIPA Prodi Reguler Farmasi UI. 2011.
- Asthana, N. and Azrni, W. (2003) Microbial *L-Asparaginase*: A Potent Antitumour Enzyme. *NISCAIR-CSIR, India*, 02(2), pp. 184-194. <https://nopr.niscpr.res.in/handle/123456789/11297>.
- Bakta, I.M. (2006). *Hematologi Klinik Ringkas*. 3rd ed. Diedit oleh K. Purba dan D. Letare. Jakarta: EGC.
- Barman, S., Bhattacharya, S.S. and Chandra Mandal, N. (2020) *Serratia*’, in *Beneficial Microbes in Agro-Ecology*. *Elsevier*, pp. 27–36. Available at: <https://doi.org/10.1016/B978-0-12-823414-3.00003-4>.
- Beane F., L.E. Blair, A. Lubin, J.H. Stewart, P.A. Hayes, R.B. Hoover, R.N. Hauptmann, M. *et al.* (2009) Mortality From Lymphohematopoietic Malignancies Among Workers in Formaldehyde Industries: The National Cancer Institute Cohort, *JNCI: Journal of the National Cancer Institute*, 101(10), pp. 751–761. Available at: <https://doi.org/10.1093/jnci/djp096>.
- Bertani, G., (2004). Lysogeny at mid-twentieth century: P1, P2, and other experimental systems. *Journal of Bacteriology*, 186(3), pp.595-600. Available at : <https://journals.asm.org/doi/10.1128/JB.186.3.595-600.2004>
- Bray, F. Laversanne, M. Sung, H. Ferlay, J. Siegel, R.L. Soerjomataram, I. (2024) Global cancer statistics 2022: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries, *CA: A Cancer Journal for Clinicians*, 74(3), pp. 229–263. Available at: <https://doi.org/10.3322/caac.21834>.

- Broome, J.D., (1963). Evidence that the L-Asparaginase of guinea pig serum is responsible for its antilymphoma effects. I. Properties of the L-Asparaginase of guinea pig serum in relation to those of the antilymphoma substance. *Journal of Experimental Medicine*, 118(1), pp.99–120. Available at: <https://doi:10.1084/jem.118.1.99>.
- Cedar, H. and Schwartz, J.H. (1968) Production of L -Asparaginase II by *Escherichia coli*, *Journal of Bacteriology*, 96(6), pp. 2043–2048. Available at: <https://doi.org/10.1128/jb.96.6.2043-2048.1968>.
- Clementi, A. (1922) La Désamidation Enzymatique De L'asparagine Chez Les Différentes Espèces Animales Et La Signification Physio Logique De Sa Presence Dans L'organisme, *Archives Internationales de Physiologie*, 19(4), pp. 369–398. Available at: <https://doi.org/10.3109/13813452209145156>.
- Damira, Firdha, N. ., Farma, S. A. ., Atifah, Y. . and Batungale, S. . (2021). Aktivitas Enzim Amilase pada Saliva dan Enzim Protease pada Sekret Pankreas Rana esculent, *Prosiding Seminar Nasional Biologi*, 1(1), pp. 111–121. Available at: <https://doi:10.24036/proseminasbio/vol1/19>.
- Day, J.R. & Underwood, A.L., 1986. *Analisis Kimia Kuantitatif*. Diterjemahkan oleh A.H. Pudjaatmaka. Jakarta: Erlangga.
- Desjardins, P. and Conklin, D., (2010). NanoDrop microvolume quantitation of nucleic acids. *Journal of Visualized Experiments (JoVE)*, (45), p.2565. doi:10.3791/2565. Available at: <https://pubmed.ncbi.nlm.nih.gov/21189466/>
- Döhner, H., Weisdorf, D.J., and Bloomfield, C.D. (2019). Acute myeloid leukemia. *New England Journal of Medicine*, 381(12), pp.1136-1152.. Available at: <https://doi:10.1056/NEJMra1406184>.
- Dolowy, W.C., Henson, D., Cornet, J., Sellin, H. (1966) Toxic and antineoplastic effects of L-Asparaginase: Study of mice with lymphoma and normal monkeys and report on a child with leukemia, *Cancer*, 19(12), pp. 1813–1819. Available at: [https://doi.org/10.1002/1097-0142\(196612\)19:12<1813::AID-CNCR2820191208>3.0.CO;2-E](https://doi.org/10.1002/1097-0142(196612)19:12<1813::AID-CNCR2820191208>3.0.CO;2-E).
- El-Bessoumy, A.A., Sarhan, M. and Mansour, J., (2004). Production, isolation, and purification of L-Asparaginase from *Pseudomonas aeruginosa* 50071 using solid-state fermentation. *Journal of Biochemistry and Molecular Biology*, 37(4), pp.387–393. doi:10.5483/bmbrep.2004.37.4.387. Available at: <https://pubmed.ncbi.nlm.nih.gov/15469724/>
- Estey, E.H., (2018). Acute myeloid leukemia: (2019) update on risk-stratification and management. *American Journal of Hematology*, 93(10), pp.1267–1291. Available at: <https://doi:10.1002/ajh.25214>.

- Fatihah, R. Suliansyah, I. Tjong, D.H. Syukriani, L. Yunita, R. Trivano, R. Azizah, N. Jamsari. (2021) Genome of *Serratia plymuthica* UBCF_13, Insight into diverse unique traits. *F1000Research*. Available at: <https://doi.org/10.12688/f1000research.54402.1>,
- Fire, A., Xu, S., Montgomery, M.K., Kostas, S.A., Driver, S.E. and Mello, C.C., (1998). Potent and specific genetic interference by double-stranded RNA in *Caenorhabditis elegans*. *Nature*, 391(6669), pp.806–811. Available at: <https://doi.org/10.1038/35888>.
- Griffiths, A. J. F., Wessler, S. R., Carroll, S. B. & Doebley, J. (2020). *Introduction to Genetic Analysis*. 12th ed.
- Grimont, F. and Grimont, P.A.D., (2015). *Serratia*. In: *Bergey's Manual of Systematics of Archaea and Bacteria*. *Wiley Online Library*, pp.1–29. Available at: <https://onlinelibrary.wiley.com/doi/10.1002/9781118960608.gbm01195>
- Harris, D.C., (2020). *Quantitative Chemical Analysis*. 10th ed. New York: W. H. Freeman and Company. Available at: <https://www.macmillanlearning.com/college/us/product/Quantitative-Chemical-Analysis/p/131915414X>
- Hijiya, N. Ness, K.K. Ribeiro, R.C. Hudson, M.M. (2009) Acute leukemia as a secondary malignancy in children and adolescents: Current findings and issues, *Cancer*, 115(1), pp. 23–35. Available at: <https://doi.org/10.1002/cncr.23988>.
- Hsu, W.-L. Preston, D.L. Soda, M. Sugiyama, H. Funamoto, S. Kodama, K. *et al.* (2013) The Incidence of Leukemia, Lymphoma and Multiple Myeloma among Atomic Bomb Survivors: 1950–2001, *Radiation Research*, 179(3), p. 361. Available at: <https://doi.org/10.1667/RR2892.1>.
- Imada, A., Igarasi, S., Nakahama, K. and Isono, M., (1973). Asparaginase and glutaminase activity of microorganisms. *Journal of General Microbiology*, 76(1), pp.85-99. Available at: <https://www.microbiologyresearch.org/content/journal/micro/10.1099/0022-1287-76-1-85>
- Janda, J.M. and Abbott, S.L., (2007). 16S rRNA gene sequencing for bacterial identification in the diagnostic laboratory: pluses, perils, and pitfalls. *Journal of Clinical Microbiology*, 45(9), pp.2761-2764.
- Jennings, M.P. and Beacham, I.R. (1990) Analysis of the *Escherichia coli* gene encoding L-Asparaginase II, ansB, and its regulation by cyclic AMP receptor and FNR proteins, *Journal of Bacteriology*, 172(3), pp. 1491–1498. Available at: <https://doi.org/10.1128/jb.172.3.1491-1498.1990>.

- Kabeer, S.S. Francis, B. Vishnupriya, S. Kattatheyil, H. Joseph, K.J. Krishnan, K.P. Hatha, A.A. (2023) Characterization of L-Asparaginase from *Streptomyces koyangensis* SK4 with acrylamide-minimizing potential in potato chips, *Brazilian Journal of Microbiology*, 54(3), pp. 1645–1654. Available at: <https://doi.org/10.1007/s42770-023-00967-7>.
- Karim, H. Ahmad, A. Asmi, N. Natzir, R. Massi, M.N. *et al.* (2020). Optimization of Enzyme Activity of L-Asparaginase Derived From *Enterobacter agglomerans* SB 221 Bacterial Symbiont of Brown Algae *Sargassum* sp. *Rasayan Journal of Chemistry*, vol. 13, no. 3, pp. 1571-1579. Available at: <https://doi.org/10.31788/RJC.2020.1335691>
- Keating, M.J. Holmes, R. Lerner, S. Ho, D.H (1993) L-Asparaginase and PEG Asparaginase— Past, Present, and Future, *Leukemia & Lymphoma*, 10(sup1), pp. 153–157. Available at: <https://doi.org/10.3109/10428199309149129>.
- Kemenkes RI. (2021). Data Kanker di Indonesia: Laporan Tahunan. Jakarta: Kementerian Kesehatan Republik Indonesia.
- Khopkar, S.M., (1990). *Konsep Dasar Kimia Analitik*. Diterjemahkan oleh A. Saptorahardjo. Jakarta: UI Press.
- Khopkar, S.M., (2003). *Konsep Dasar Kimia Analitik*. Diterjemahkan oleh A. Saptorahardjo. Jakarta: UI Press.
- Kumar, S. and Sobha, K., (2012). L-Asparaginase from microbes: A comprehensive review. *Advances in Bioresearch*, 3(4), pp.137-157. Available at: https://www.researchgate.net/publication/287210934_LAsparaginase_from_microbes_A_comprehensive_review
- Lineweaver, H. and Burk, D., (1934). The determination of enzyme dissociation constants. *Journal of the American Chemical Society*, 56(3), pp.658–666. doi:10.1021/ja01318a036.
- Lodish, H., Berk, A., & Kaiser, C. A. (2021). *Molecular Cell Biology*. 9th ed.
- Madigan, M.T., Bender, K.S., Buckley, D.H., Sattley, W.M. and Stahl, D.A., (2018). Brock Biology of Microorganisms. 15th ed. New York: Pearson. Available at: <https://www.pearson.com/us/higher-education/product/Madigan-Brock-Biology-of-Microorganisms-15th-Edition/9780134261928.html>
- Malard, F. and Mohty, M., (2020). Acute lymphoblastic leukaemia. *Lancet*, 395(10230), pp.1146–1162. Available at: [https://doi:10.1016/S0140-6736\(19\)33018-1](https://doi:10.1016/S0140-6736(19)33018-1).
- Meghavarnam, A.K. and Janakiraman, S., (2017). Purification and characterization of the therapeutic enzyme *L-Asparaginase* from tropical soil fungal isolate

- Fusarium culmorum ASP-87. *MOJ Proteomics & Bioinformatics*, 6(1), pp.226-230. Available at: <https://medcraveonline.com/MOJPB/purification-and-characterization-of-therapeutic-enzyme-L-Asparaginase-from-tropical-soil-fungal-isolate-fusarium-culmorum-asp-87.html>
- Morgan, C.A., Herman, N., White, P.A. and Vesey, G., (2006). Preservation of micro-organisms by drying: A review. *Journal of Microbiological Methods*, 66(2), pp.183-193. Available at: <https://www.sciencedirect.com/science/article/pii/S0167701206000037>
- Mulyono, H.A.M., 2006. *Membuat Reagen Kimia di Laboratorium*. Jakarta: Bumi Aksara.
- Owen, C., Barnett, M. and Fitzgibbon, J. (2008) Familial myelodysplasia and acute myeloid leukaemia – a review, *British Journal of Haematology*, 140(2), pp. 123–132. Available at: <https://doi.org/10.1111/j.1365-2141.2007.06909.x>.
- Palumbo, A., & Anderson, K. (2019). Multiple myeloma. *New England Journal of Medicine*, 380(24), 2271-2284. Available at: <https://doi:10.1056/NEJMra1011442>.
- Pegg, D.E., (2007). Principles of cryopreservation. In: Day, J.G. and Stacey, G.N., eds. Cryopreservation and freeze-drying protocols. *Methods in Molecular Biology*, vol. 368. Humana Press, pp.39-57. Available at: https://link.springer.com/protocol/10.1007/978-1-59745-362-2_3
- Pui, C. H. Relling, M.V. & Downing, J.R. (2015). Childhood leukemia: insights into etiology and prevention. *Nature Reviews Clinical Oncology*, 12(10), 573-582.
- Riawan, R. (2010). *Kimia Organik: Untuk Mahasiswa Kedokteran, Kedokteran Gigi, dan Perawat*. Diedit oleh Syarifudin & L. Saputra. Jakarta: Bumi Aksara.
- Richardson, D. Sugiyama, H. Nishi, N. Sakata, R. Shimizu, Y. *et al.* (2009) Ionizing Radiation and Leukemia Mortality among Japanese Atomic Bomb Survivors, 1950–2000, *Radiation Research*, 172(3), pp. 368–382. Available at: <https://doi.org/10.1667/RR1801.1>.
- Rohman, A. (2007). *Kimia Farmasi Analisis*. Yogyakarta: Pustaka Pelajar.
- Sambrook, J. & Russell, D. W. (2001) *Molecular Cloning: A Laboratory. Manual*. Cold Spring Harbor Laboratory Press
- Sambrook, J. and Russell, D.W., (2006). Purification of nucleic acids by phenol:chloroform extraction. *Cold Spring Harbor Protocols*, 2006(1). Available at: <https://cshprotocols.cshlp.org/content/2006/1/pdb.prot4455>

- Sawyer, C.N., McCarty, P.L. and Parkin, G.F., (2003). Chemistry for Environmental Engineering and Science. 5th ed. New York: McGraw-Hill. Available at: <https://www.worldcat.org/title/chemistry-for-environmental-engineering-and-science/oclc/48053944>
- Shirazian, P., Asad, S. and Amoozegar, M.A., (2016). Potential of halophilic and halotolerant bacteria for production of antineoplastic enzymes: *L-Asparaginase* and *L-glutaminase*. *EXCLI Journal*, 15, pp.268-279. Available at: https://www.excli.de/vol15/Shirazian_15022016_proof.pdf
- Skoog, D.A. & West, D.M., (1971). Principles of Instrumental Analysis. New York: Holt, Rinehart and Winston.
- Skoog, D.A., West, D.M. & Holler, F.J., (1996). Fundamentals of Analytical Chemistry (7th ed.). Saunders College Pub.
- Smith, A., & Jones, B. (2020). Lymphoma: Diagnosis and Management. *Hematology Journal*, 18(1), 45-60.
- Tandon, S., Sharma, A., Singh, S., Sharma, S., Sarma, S.J. (2021) Therapeutic enzymes: Discoveries, production and applications, *Journal of Drug Delivery Science and Technology*, 63, p. 102455. Available at: <https://doi.org/10.1016/j.jddst.2021.102455>.
- Terwilliger, T. and Abdul-Hay, M. (2017) Acute lymphoblastic leukemia: a comprehensive review and 2017 update, *Blood Cancer Journal*, 7(6), pp. e577–e577. Available at: <https://doi.org/10.1038/bcj.2017.53>.
- Triyati, E. (1985). Spektrofotometer Ultra-Violet dan Sinar Tampak Serta Aplikasinya Dalam Oseanologi. *Oseana* 10 (1): 39-47.
- Van Trimpont, M., Peeters, E., Visser, Y.D., Schalk, A.M., Mondelaers, V. *et al.* (2022) Novel Insights on the Use of *L-Asparaginase* as an Efficient and Safe Anti-Cancer Therapy, *Cancers*, 14(4), p. 902. Available at: <https://doi.org/10.3390/cancers14040902>.
- Verma, S. Maheshwari, S., Singh, R.K., Chaudari, P.K. (2012) Laser in dentistry: An innovative tool in modern dental practice, *National Journal of Maxillofacial Surgery*, 3(2), p. 124. Available at: <https://doi.org/10.4103/0975-5950.111342>.
- Weisburg, W.G., Barns, S.M., Pelletier, D.A. and Lane, D.J., (1991). 16S ribosomal DNA amplification for phylogenetic study. *Journal of Bacteriology*, 173(2), pp.697-703. Available at: <https://jb.asm.org/content/173/2/697>

Weng, A.P., Ferrando, A.A., Lee, W., Morris, J.P., Silverman, L.B., Sanchez-Irizarry, and Look, A.T *et al.*, (2004). Activating mutations of NOTCH1 in human T cell acute lymphoblastic leukemia. *Science*, 306(5694), pp.269-271. Available at : <https://doi:10.1126/science.1102160>

