

DAFTAR PUSTAKA

- Adarme-Vega, T. C., Lim, D. K. Y., Timmins, M., Vernen, F., Li, Y., & Schenk, P. M. (2012). Microalgal biofactories: a promising approach towards sustainable omega-3 fatty acid production. *Microbial Cell Factories*, 11(1), 1. <https://doi.org/10.1186/1475-2859-11-96>
- Algotherm. (2017). *Porphyridium Cruentum*. Algotherm Cosmétique Marine. <https://algotherm.lv/en/seaweed/porphyridium-cruentum-en/>
- Andriyono, S., & Airlangga, U. (2015). *Analisis Lipid Beberapa Potensi Mikroalga Untuk Calon Suplemen. September.*
- Arbianti, R., Amini, S., Utami, T. S., Hermansyah, H., & Hadi, K. (2013). *Produksi Pelengkap Nutrisi dari Mikroalga Laut Spirulina Plantensis dan Botryococcus Braunii*. 11(5), 243–249.
- Arfah, Y., Cokrowati, N., & Mukhlis, A. (2019). Pengaruh Konsentrasi Pupuk Urea Terhadap Pertumbuhan Populasi Sel Nannochloropsis sp. *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology*, 12(1), 45. <https://doi.org/10.21107/jk.v12i1.4925>
- Bligh E.G, & Dyer W.J. (1959). Canadian Journal of Biochemistry and Physiology Issued by The National Research Council Of Canada A Rapid Method Of Total Lipid Extraction And Purification1. *Canadian Journal of Biochemistry and Physiology*, 37(8), 911–917. www.nrcresearchpress.com
- Britannica. (2022). *Oleic Acid*. Encyclopaedia Britannica. <https://www.britannica.com/science/oleic-acid>
- Csgör, Z., Herrenbauer, M., Schmidt, K., & Posten, C. (2001). Light distribution in a novel photobioreactor - Modelling for optimization. *Journal of Applied Phycology*, 13(4), 325–333. <https://doi.org/10.1023/A:1017974232510>
- Dali, S., Firdaus, F., & Rusman, H. J. (2017). Produksi DAG Dari Virgin Coconut Oil (VCO) Melalui Reaksi Trans-Esterifikasi Menggunakan Enzim Lipase Dedak Padi (*Oryza Sativa L.*) Spesifik C18-20 Terimobilisasi Karbon Aktif Sebagai Biokatalis. *Indo. J. Chem. Res.*, 5(1), 37–46. <https://doi.org/10.30598//ijcr.2017.5-sen>
- Darmapatni, K. A. G., Basori, A., & Suaniti, N. made. (2016). Pengembangan Metode Gc-Ms Untuk. *Jurnal Biosains Pascasarjana*, 18(3), 255–270.
- David G. Watson. (2009). *Analisis farmasi: buku ajar untuk mahasiswa farmasi dan praktisi kimia farmasi*. EGC. http://ucs.sulsellib.net//index.php?p=show_detail&id=95359
- Dha, K., Dan, E. P. A., Dalam, A. A., & Porphyridium, D. A. N. (2012). *LAUT DARI SPESIES Spirulina platensis , Botryococcus braunii ,.*
- Dian Triastari Armanda. (2013). *Pertumbuhan Kultur Mikroalga Diatomskeletonema Costatum(Greville) Cleve Isolat Jepara pada Medium F/2 Dan Medium Conway*. 49–63.

- Eggers, L. F. (2020). Encyclopedia of Lipidomics. *Encyclopedia of Lipidomics*. <https://doi.org/10.1007/978-94-007-7864-1>
- Fitriani, F., Fendi, F., & Rochmady, R. (2017). Pengaruh pemberian pupuk anorganik (NPK + Silikat) dengan dosis berbeda terhadap kepadatan Skeletonema costatum pada pembenihan udang windu. *Akuatikisle: Jurnal Akuakultur, Pesisir Dan Pulau-Pulau Kecil*, 1(1), 11–18.
- FOLCH, J., LEES, M., & SLOANE STANLEY, G. H. (1957). A simple method for the isolation and purification of total lipides from animal tissues. *The Journal of Biological Chemistry*, 226(1), 497–509. [https://doi.org/10.1016/s0021-9258\(18\)64849-5](https://doi.org/10.1016/s0021-9258(18)64849-5)
- Goldman, J. C., & Carpenter, E. J. (1974). A kinetic approach to the effect of temperature on algal growth. *Limnology and Oceanography*, 19(5), 756–766. <https://doi.org/10.4319/lo.1974.19.5.0756>
- Gorgich, M., Mata, T. M., Martins, A. A., Branco-Vieira, M., & Caetano, N. S. (2020). Comparison of different lipid extraction procedures applied to three microalgal species. *Energy Reports*, 6, 477–482. <https://doi.org/10.1016/j.egyr.2019.09.011>
- Granéli, E., & Salomon, P. S. (2010). Factors influencing allelopathy and toxicity in prymnesium parvum. *Journal of the American Water Resources Association*, 46(1), 108–120. <https://doi.org/10.1111/j.1752-1688.2009.00395.x>
- Gunawan, G. M., Suhendar, D., Sundari, C. D. D., Ivansyah, A. L., Setiadji, S., & Rohmatulloh, Y. (2019). Sintesis Zeolit Silikalit-1 Menggunakan Limbah Tongkol Jagung sebagai Sumber Silika. *Al-Kimiya*, 4(2), 91–99. <https://doi.org/10.15575/ak.v4i2.5089>
- Gunawan, I. (2009). Studi perbandingan hasil sintesis metil-n(2,3-xilil) antranilat dengan pereaksi diazometanan dan BF₃-metanol. *Jurnal Kimia*, 3(1), 55–60.
- Hadiyanto, & Azim, M. (2012). *Mikroalga Sumber Pangan dan Energi Masa Depan*. 1–138.
- Hasanah. (2011). *MIKROENKAPSULASI BIOMASA Porphyridium cruentum*.
- HASANAH. (2011). *MIKROENKAPSULASI BIOMASA Porphyridium cruentum*. DEPARTEMEN TEKNOLOGI HASIL PERAIRAN FAKULTAS PERIKANAN DAN ILMU KELAUTAN INSTITUT PERTANIAN BOGOR BOGOR. https://node2.123dok.com/dt03pdf/123dok/000/369/369823.pdf.pdf?X-Amz-Content-Sha256=UNSIGNED-PAYLOAD&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=aa5vJ7sqx6H8Hq4u%2F20220524%2F%2Fs3%2Faws4_request&X-Amz-Date=20220524T113516Z&X-Amz-SignedHeaders=host&
- Herawati, E. Y. (2019). Identifikasi Jenis-jenis Phytoplankton pada Tambak Bandeng dengan Kualitas Omega-3 Tinggi. *Journal of Fisheries and Marine Research*, 3(2), 258–262.

- Hudaya, T., & Pandega, I. G. W. (2014). Kajian Hidrodeoksigenasi Minyak Biji Kapok (*Ceiba Pentandra*) dengan Katalis Ni-Mo/gamma-Al₂O₃ untuk Sintesa Biohidrokarbon. *Laporan Penelitian, November*, 1–60.
- Istirokhatun, T., Aulia, M., & Utomo, S. (2017). Potensi Chlorella Sp. untuk Menyisihkan COD dan Nitrat dalam Limbah Cair Tahu. *Jurnal Presipitasi : Media Komunikasi Dan Pengembangan Teknik Lingkungan*, 14(2), 88. <https://doi.org/10.14710/presipitasi.v14i2.88-96>
- J.Drozd. (1985). *Chemical Derivatization in Gas Chromatography*. Elsivier.
- Jelizanur,), Padil,), Sri,), Muria, R., Program, M., Sarjana, S., Kimia, T., & Jurusan, D. (2019). Kultivasi Mikroalga Menggunakan Media Af6 Pada Berbagai Ph. *Jom FTEKNIK*, 6, 1–5.
- Jitraporn Vongsvivut, Heraud, P., Gupta, A., Puri, M., McNaughtonb, D., & Barrowa, C. J. (2013). *FTIR microspectroscopy for rapid screening and commercially valuable marine yeasts and protists* †. 6016–6031. <https://doi.org/10.1039/c3an00485f>
- Joshi Niles Hemantkumar, M. I. R. (2016). Microalgae and Its Use in Nutraceuticals and Food Supplements. *Physiology to Application Figure*, i(tourism), 13. <https://doi.org/DOI: http://dx.doi.org/10.5772/intechopen.90143> The
- Julianti, E., Fathurohman, M., Damayanti, S., & Kartasasmita, R. E. (2018). Isolate of Heterotrophic Microalgae As a Potential Source for Docohexaenoic Acid (Dha). *Marine Research in Indonesia*, 43(2), 79–84. <https://doi.org/10.14203/mri.v43i2.264>
- Junaidi, A. B., Zulfikurrahman, Abdullah, & Gunawan. (2014). Ekstraksi lipid dari biomassa *Synechococcus* sp. dengan metode osmotic shock. *Sains Dan Terapan Kimia*, 8(2), 94–102.
- Kong, Q. X., Li, L., Martinez, B., Chen, P., & Ruan, R. (2010). Culture of microalgae chlamydomonas reinhardtii in wastewater for biomass feedstock production. *Applied Biochemistry and Biotechnology*, 160(1), 9–18. <https://doi.org/10.1007/s12010-009-8670-4>
- Kristiawan, O., Agustin, Z. L., Hanupurti, D. A., Nirwawan, R., & Hendrayanti, D. (2018). Pengaruh Bikarbonat Terhadap Pertumbuhan Mikroalga *Nannochloropsis* Sp. Sebagai Sumber Biomassa Biofuel. *Lembaran Publikasi Minyak Dan Gas Bumi*, 52(2), 95–103. <https://doi.org/10.29017/lpmgb.52.2.349>
- Lannan, E. (2011). Scale-up of algae growth system to cleanse wastewater and produce oils for biodiesel production. *Thesis*, 115. <https://search.proquest.com/docview/908980568?pq-origsite=gscholar>
- Lari, Z., Moradi-kheibari, N., Ahmadzadeh, H., Abrishamchi, P., Moheimani, N. R., & Murry, M. A. (2016). Bioprocess engineering of microalgae to optimize lipid production through nutrient management. *Journal of Applied Phycology*, 28(6), 3235–3250. <https://doi.org/10.1007/s10811-016-0884-6>
- Lavens, P. and Sorgeloos, P. (1996). *Manual on the production and use of live food for aquaculture*.

- Luthfi Assadad. (2010). Sebagai Bahan Baku. *Squalen*, 5(2).
- Madigan, Michael & Martinko, John & Parker, J. . (2003). *The Biology of Microorganisms*. https://www.researchgate.net/publication/257871452_The_Biology_of_Microorganisms
- Mohamed, M. A., Jaafar, J., Ismail, A. F., Othman, M. H. D., & Rahman, M. A. (2017). Fourier Transform Infrared (FTIR) Spectroscopy. In *Membrane Characterization*. Elsevier B.V. <https://doi.org/10.1016/B978-0-444-63776-5.00001-2>
- Nugraha, I., Izwati Utami, P., & Sri Rahayu, W. (2018). Analisis Asam Lemak Daging Anjing pada Bakso Sapi Menggunakan Gas Chromatography Mass Spectrometry (GCMS) yang Dikombinasikan dengan PCA (Principal Component Analysis). *Indonesia Journal of Halal*, 1(2), 117. <https://doi.org/10.14710/halal.v1i2.3668>
- Olaizola, M. (2003). Commercial development of microalgal biotechnology: From the test tube to the marketplace. *Biomolecular Engineering*, 20(4–6), 459–466. [https://doi.org/10.1016/S1389-0344\(03\)00076-5](https://doi.org/10.1016/S1389-0344(03)00076-5)
- Perdana, B. A., Chaidir, Z., Kusnanda, A. J., Dharma, A., Zakaria, I. J., Syafrizayanti, Bayu, A., & Putra, M. Y. (2021). Omega-3 fatty acids of microalgae as a food supplement: A review of exogenous factors for production enhancement. *Algal Research*, 60(December), 102542. <https://doi.org/10.1016/j.algal.2021.102542>
- Pertamawati, P. (2011). PENGARUH FOTOSINTESIS TERHADAP PERTUMBUHAN TANAMAN KENTANG (SOLANUM TUBEROSUM L.) DALAM LINGKUNGAN FOTOAUTOTROF SECARA INVITRO (The responses of potatoes (*Solanum tuberosum* L.) explant in vitro growth in photoautotrophic condition). *Jurnal Sains Dan Teknologi Indonesia*, 12(1), 31–37.
- Prihantini, N. B., Damayanti, D., & Yuniati, R. (2010). Pengaruh Konsentrasi Medium Ekstrak Tauge (Met) Terhadap Pertumbuhan Scenedesmus Isolat Subang. *Makara of Science Series*, 11(1), 1–9. <https://doi.org/10.7454/mss.V11i1.213>
- Prihantini, N. B., Putri, B., & Yuniati, R. (2010). Pertumbuhan Chlorella Spp. Dalam Medium Ekstrak Tauge (Met) Dengan Variasi Ph Awal. *Makara of Science Series*, 9(1), 1–6. <https://doi.org/10.7454/mss.v9i1.457>
- Primaryadi, I. N. B., Anggreni, A. A. M. D., & Wartini, N. M. (2015). Pengaruh Penambahan Magnesium Sulfat Heptahidrat dan Feri Klorida pada Blue Green Medium-11 terhadap Konsentrasi Biomassa Mikroalga Tetraselmis chuii. *Jurnal REKAYASA DAN MANAJEMEN AGROINDUSTRI*, 3(2), 92–100.
- Ridhwan, M. (2012). Tingkat Keanekaragaman Hayati Dan Pemanfaatannya Di Indonesia. *Jurnal Biology Education*, 1(1), 1–17.
- Ríos, S. D., Castañeda, J., Torras, C., Farriol, X., & Salvadó, J. (2013). Lipid extraction methods from microalgal biomass harvested by two different paths: Screening studies toward biodiesel production. *Bioresource Technology*, 133, 378–388. <https://doi.org/10.1016/j.biortech.2013.01.093>

- Rozana, E., Anwar, S. H., & Sulaiman, M. I. (2021). Potensi Minyak Mikroalga Dan Khamir Sebagai Sumber Asam Lemak Esensial. *Jurnal Teknologi Industri Pertanian*, 31(3), 332–342.
- Sari, R. E. R., Kismiyati, K., & Tjahjaningsih, W. (2018). Perubahan Histopatologi Jaringan Kulit Ikan Komet (Carassius auratus auratus) Akibat Infestasi Argulus Japonicus Histopathological [Change of Comet Fish (Carassius auratus auratus) Skin Tissues Caused Argulus japonicus]. *Jurnal Ilmiah Perikanan Dan Kelautan*, 10(1), 1. <https://doi.org/10.20473/jipk.v10i1.8202>
- Sartika, R. A. D. (2008). Pengaruh Asam Lemak Jenuh, Tidak Jenuh dan Asam Lemak Trans terhadap Kesehatan. *Kesmas: National Public Health Journal*, 2(4), 154. <https://doi.org/10.21109/kesmas.v2i4.258>
- Schwingshackl, L., & Hoffmann, G. (2014). Monounsaturated fatty acids, olive oil and health status: A systematic review and meta-analysis of cohort studies. *Lipids in Health and Disease*, 13(1). <https://doi.org/10.1186/1476-511X-13-154>
- Sijtsma, L., & De Swaaf, M. E. (2004). Biotechnological production and applications of the ω-3 polyunsaturated fatty acid docosahexaenoic acid. *Applied Microbiology and Biotechnology*, 64(2), 146–153. <https://doi.org/10.1007/s00253-003-1525-y>
- Siregar, S., Supriatin, Y., & Noor, L. (2017). Efektivitas Variasi Garam Salmiak (NH4Cl) Dan Sentrifugasi Pada Pemeriksaan Basil Tahan Asam Penderita Tuberculosis. *Jurnal Teknologi Laboratorium*, 6(2), 46. <https://doi.org/10.29238/teknolabjournal.v6i2.91>
- Sparkman, O.D. & Penton, Z. & Kitson, F. G. (2011). Gas Chromatography and Mass Spectrometry: A Practical Guide. *Gas Chromatography and Mass Spectrometry: A Practical Guide*. <https://doi.org/10.1016/C2009-0-17039-3>.
- Sylvia T. Pratiwi. (2008). *Mikrobiologi Farmasi* (Rina Astrikawati (ed.)). Erlangga.
- Ugwu, C. U., Aoyagi, H., & Uchiyama, H. (2008). Photobioreactors for mass cultivation of algae. *Bioresource Technology*, 99(10), 4021–4028. <https://doi.org/10.1016/j.biortech.2007.01.046>
- Varfolomeev, S. D., & Wasserman, L. A. (2011). Microalgae as source of biofuel, food, fodder, and medicines. *Applied Biochemistry and Microbiology*, 47(9), 789–807. <https://doi.org/10.1134/S0003683811090079>
- Viena, V., Bahagia, B., & Wibowo, R. G. (2019). Ekstraksi Satu Tahap Pada Makroalga Basah dan Kering Sebagai Bahan Baku Biodiesel. *Jurnal Serambi Engineering*, 4(1), 451. <https://doi.org/10.32672/jse.v4i1.978>
- Vonshak, A., & Richmond, A. (1988). Mass production of the blue-green alga Spirulina: An overview. *Biomass*, 15(4), 233–247. [https://doi.org/10.1016/0144-4565\(88\)90059-5](https://doi.org/10.1016/0144-4565(88)90059-5)
- Zghaibi, N., Omar, R., Kamal, S. M. M., Biak, D. R. A., & Harun, R. (2019). Microwave-assisted brine extraction for enhancement of the quantity and quality of lipid production from microalgae nannochloropsis sp. *Molecules*, 24(19), 1–21. <https://doi.org/10.3390/molecules24193581>

Zulaikha, Rizki Amalia , Sri Sudaryatmi, A. B. P. (2016). Diponegoro law review. *Law and Justice*, 5(41), 1–13.
<https://ejournal3.undip.ac.id/index.php/dlr/article/view/10960/10629>