

DAFTAR PUSTAKA

- Abang, S., Anisuzzaman, S.M., Bono, A., Krishnaiah, D., Afikah, N.A., 2017. The Effect of Various Components of Triglycerides and Conversion Factor on Energy Consumption in Biodiesel Production. *Chem. Prod. Process Model.* 12, 1–9.
- Adisuryo, D., 2020. Energi Kolaborasi.
- Amir, A., Morsy, E.M., Sedik, M.Z., 2015. Yeasts as a Promising Tool for Microbial Oil Production. *Middle East J. Agric. Res.* 4, 223–231.
- Arigony, A.L.V., Oleveira, I.M., Machado, M., Bordin, D.L., Bergter, L., Prá, D., Antonio, J., Henriques, P., 2013. The Influence of Micronutrients in Cell Culture : A Reflection on Viability and Genomic Stability. *Biomed Res. Int.* 201, 1–22.
- Azad, A.K., 2014. Production of Microbial Lipids from Rice Straw Hydrolysates by *Lipomyces starkeyi* for Biodiesel Synthesis. *J. Microb. Biochem. Technol.* s8.
- Béligon, V., Poughon, L., Christophe, G., Lebert, A., Larroche, C., Fontanille, P., 2016. Validation of a predictive model for fed-batch and continuous lipids production processes from acetic acid using the oleaginous yeast *Cryptococcus curvatus*. *Biochem. Eng. J.* 111, 117–128.
- Bligh, E.G., Dyer, W.J., 1959. A Rapid Method of Total Lipid Extraction and Purification. *Can. J. Biochem. Physiol.* 37.
- Brandenburg, J., Blomqvist, J., Pickova, J., Bonturi, N., Sandgren, M., Passoth, V., 2016. Lipid production from hemicellulose with *Lipomyces starkeyi* in a pH regulated fed-batch cultivation. *Yeast* 191–198.
- Braunwald, T., Schwemmlein, L., Graeff-Hönninger, S., French, W.T., Hernandez, R., Holmes, W.E., Claupein, W., 2013. Effect of different C/N ratios on carotenoid and lipid production by *Rhodotorula glutinis*. *Appl. Microbiol. Biotechnol.* 97, 6581–6588.
- Czitrom, V., 1999. One Factor at a Time versus Designed Experiments 37–41.
- Dzurendova, S., Zimmermann, B., Tafintseva, V., Kohler, A., Horn, S.J., Shapaval, V., 2020. Metal and phosphate ions show remarkable influence on the biomass production and lipid accumulation in oleaginous *Mucor circinelloides*. *J. Fungi*.
- Enshaeieh, M., Nahvi, I., Madani, M., 2014. Improving microbial oil production with standard and native oleaginous yeasts by using Taguchi design. *Int. J. Environ. Sci. Technol.* 11, 597–604.
- Gill, C.O., Hall, M.J., Ratledge, C., 1977. Lipid accumulation in an oleaginous yeast (*Candida 107*) growing on glucose in single stage continuous culture. *Appl. Environ. Microbiol.* 33, 231–239.
- Granger, L.M., Perlot, P., Goma, G., Pareilleux, A., 1993. Effect of various nutrient limitations on fatty acid production by *Rhodotorula glutinis*. *Appl. Microbiol. Biotechnol.* 38, 784–789.
- Grant, C.L., Pramer, D., 1962. Minor Element Composition of Yeast Extract. *J.*

- Bacteriol. 84, 869–870.
- Holdsworth, J.E., Ratledge, C., 1988. Lipid Turnover in Oleaginous Yeasts. *Microbiology* 134, 339–346.
- Ivanova, V., Oriol, M., Montes, M.J., García, A., Guine, J., 2017. Production of Antibacterial and Antifungal Metabolites by (*S.albovinaceus*) Strain no.10/2 and Media Optimization. *Am. Int. J. Biol.* 5, 1–24.
- Jiru, T.M., Groenewald, M., Pohl, C., Steyn, L., Kiggundu, N., Abate, D., 2017. Optimization of cultivation conditions for biotechnological production of lipid by *Rhodotorula kratochvilovae* (syn, *Rhodospiridium kratochvilovae*) SY89 for biodiesel preparation. *3 Biotech* 7.
- Juanssilfero, A.B., Kahar, P., Amza, R.L., Yopi, Sudesh, K., Ogino, C., Prasetya, B., Kondo, A., 2019. Lipid production by *Lipomyces starkeyi* using sap squeezed from felled old oil palm trunks. *J. Biosci. Bioeng.* 127, 726–731.
- Julaeha, E., Rustiyaty, S., Nurmaliyah Fajri, N., Ramdlani, F., Tantra, R.G., 2016. Pemanfaatan Tepung Gadung (*Dioscorea hispida* DENNST.) pada Produksi Amilase menggunakan *Bacillus* sp. *Fortech* 1, 45–52.
- Karna, S.K., Sahai, R., 2012. An overview on Taguchi Method. *Int. J. Eng. Math. Sci.* 1, 11–18.
- Khuri, A.I., Mukhopadhyay, S., 2010. Response surface methodology. *Wiley Interdiscip. Rev. Comput. Stat.* 2, 128–149.
- Kraisintu, P., Yongmanitchai, W., Limtong, S., 2010. Selection and optimization for lipid production of a newly isolated oleaginous yeast, *rhodospiridium toruloides* DMKU3-TK16. *Kasetsart J. - Nat. Sci.* 44, 436–445.
- Kumar, S.P.J., Banerjee, R., 2013. Optimization of lipid enriched biomass production from oleaginous fungus using response surface methodology. *Indian J. Exp. Biol.* 51, 979–983.
- Lumbsch, T.H., Huhndorf, S.M., 2007. Outline of Ascomycota - 2007. *Myconet* 13, 1–58.
- Mirza, S., Siddique, S., Qamer, H.M., Doggar, M.G., 2019. Optimization of lipid production potential of oleaginous yeast by response surface methodology cultivated in agro-industrial waste. *Int. J. Environ. Sci. Technol.* 16, 3221–3230.
- Mondala, A.H., Hernandez, R., French, T., McFarland, L., 2012. Enhanced Lipid and Biodiesel Production from Glucose-Fed Activated Sludge: Kinetics and Microbial Community Analysis. *AIChE J.* 58, 1279–1290.
- Montgomery, D.C., 2013. Design and Analysis of Experiments Eighth Edition. Arizona State University, Copyright.
- Muñoz-Huerta, R.F., Guevara-Gonzalez, R.G., Contreras-Medina, L.M., Torres-Pacheco, I., Prado-Olivarez, J., Ocampo-Velazquez, R. V., 2013. A review of methods for sensing the nitrogen status in plants: Advantages, disadvantages and recent advances. *Sensors (Switzerland)* 13, 10823–10843.

- Osho, M., Popoola, T., Adeleye, T., Adetunji, C., 2016. Response surface methodology for optimal immobilization of *Aspergillus niger* ATCC 1015 lipase by adsorption method. *Int. J. Biol. Res.* 4, 56.
- Ouedraogo, N., Savadogo, A., Somda, M.K., Tapsoba, F., Traore, A.S., 2017. Effect of mineral salts and nitrogen source on yeast (*Candida utilis* NOY1) biomass production using tubers wastes 16, 359–365.
- Papanikolaou, S., Aggelis, G., 2011. Lipids of oleaginous yeasts. Part I: Biochemistry of single cell oil production. *Eur. J. Lipid Sci. Technol.* 113, 1031–1051.
- Papanikolaou, S., Muniglia, L., Chevalot, I., Aggelis, G., Marc, I., 2002. *Yarrowia lipolytica* as a potential producer of citric acid from raw glycerol. *J. Appl. Microbiol.* 92, 737–744.
- Perli, T., Wronska, A.K., Ortiz-Merino, R.A., Pronk, J.T., Daran, J.M., 2020. Vitamin requirements and biosynthesis in *Saccharomyces cerevisiae*. *Yeast* 37, 283–304.
- Qin, L., Liu, L., Zeng, A.P., Wei, D., 2017. From low-cost substrates to Single Cell Oils synthesized by oleaginous yeasts. *Bioresour. Technol.* 245, 1507–1519.
- Ramadhan, S., Tiwow, V.M.A., Said, I., 2017. Analisis Kadar Unsur Nitrogen (N) Dan Posforus (P) Dalam Lamun (*Enhalus acoroides*) Di Wilayah Perairan Pesisir Kabonga Besar Kecamatan Banawa Kabupaten Donggala. *J. Akad. Kim.* 5, 37.
- Šajbidor, J., Koželouhov'a, D., Čert'ik, M., 1992. Influence of some metal ions on the lipid content and arachidonic acid production by *Mortierella* sp. *Folia Microbiol. (Praha)*. 37, 404–406.
- Sharmin, T., Monirul Hasan, C.M., Aftabuddin, S., Rahman, M.A., Khan, M., 2016. Growth, fatty acid, and lipid composition of marine microalgae *skeletonema costatum* available in Bangladesh coast: Consideration as biodiesel feedstock. *J. Mar. Biol.* 2016.
- Sitepu, I.R., Garay, L.A., Sestric, R., Levin, D., Block, D.E., German, J.B., Boundy-Mills, K.L., 2014. Oleaginous yeasts for biodiesel: Current and future trends in biology and production. *Biotechnol. Adv.* 32, 1336–1360.
- Sivaraos, Milkey, K.R., Samsudin, A.R., Dubey, A.K., Kidd, P., 2014. Comparison between taguchi method and response surface methodology (RSM) in modelling CO2 laser machining. *Jordan J. Mech. Ind. Eng.* 8, 35–42.
- Slininger, P.J., Dien, B.S., Kurtzman, C.P., Moser, B.R., Bakota, E.L., Thompson, S.R., O'Bryan, P.J., Cotta, M.A., Balan, V., Jin, M., Sousa, L. da C., Dale, B.E., 2016. Comparative lipid production by oleaginous yeasts in hydrolyzates of lignocellulosic biomass and process strategy for high titers. *Biotechnol. Bioeng.* 113, 1676–1690.
- Sreeharsha, R.V., Mohan, S.V., 2020. Obscure yet Promising Oleaginous Yeasts for Fuel and Chemical Production. *Trends Biotechnol.*
- Sukiman, B., Tontowi, A.E., 2019. Optimasi Desain Stent Pla Menggunakan Metode Response Surface (Rsm) Untuk Memperoleh Fleksibilitas Terbaik. *J. Teknosains*

8, 48.

- Suleiman, W.B., Hashem, A.H., 2018. Isolation and screening of promising oleaginous *Rhizopus* sp. and designing of Taguchi method for increasing lipid production Suleiman. J. Innov. Pharm. Biol. Sci. 5, 08–15.
- support Minitab® 19, 2022. Lack-of-fit and lack-of-fit tests [WWW Document]. URL <https://support.minitab.com/en-us/minitab/19/help-and-how-to/statistical-modeling/regression/supporting-topics/regression-models/lack-of-fit-and-lack-of-fit-tests/> (accessed 4.23.22).
- Support Minitab® 19, 2022. Interpret all statistics and graphs for Normality Test [WWW Document]. URL <https://support.minitab.com/en-us/minitab/19/help-and-how-to/statistics/basic-statistics/how-to/normality-test/interpret-the-results/all-statistics-and-graphs/> (accessed 4.23.22).
- Tao, B.Y., 2007. Bioprocessing for Value-Added Products from Renewable Resources. Bioprocess. Value-Added Prod. from Renew. Resour. 611–627.
- Taskin, M., Ortucu, S., Aydogan, M.N., Arslan, N.P., 2016. Lipid production from sugar beet molasses under non-aseptic culture conditions using the oleaginous yeast *Rhodotorula glutinis* TR29. Renew. Energy 99, 198–204.
- Towijit, U., Amponpiboon, C., Sriariyanun, M., Kongruang, S., 2014. Optimization of Lipid Production By Oleaginous Yeast Using Response Surface Methodology 21, 321–328.
- Tunio, M.M., Samo, S.R., Ali, Z.M., Jakharani, A.Q., Mukwana, K.C., 2016. Production and Characterization of Biodiesel from Indigenous Castor Seeds. Int. J. Eng. Sci. 5, 2396–3661.
- Vincent, M., Chai Hung, H., Rowena, P., Baran, M., 2018. Isolation, identification and diversity of oleaginous yeasts from Kuching, Sarawak, Malaysia 19, 1266–1272.
- Wood, I.P., Elliston, A., Ryden, P., Bancroft, I., Roberts, I.N., Waldron, K.W., 2012. Rapid quantification of reducing sugars in biomass hydrolysates: Improving the speed and precision of the dinitrosalicylic acid assay. Biomass and Bioenergy 44, 117–121.
- Wu, S., Hu, C., Jin, G., Zhao, X., Zhao, Z.K., 2010. Phosphate-limitation mediated lipid production by *Rhodospiridium toruloides*. Bioresour. Technol. 101, 6124–6129.
- Xavier, M.C.A., Coradini, A.L.V., Deckmann, A.C., Franco, T.T., 2017. Lipid production from hemicellulose hydrolysate and acetic acid by *Lipomyces starkeyi* and the ability of yeast to metabolize inhibitors. Biochem. Eng. J. 118, 11–19.
- Yamazaki, A., Kanti, A., Kawasaki, H., 2017. Three novel lipomycetaceous yeasts, *Lipomyces maratuensis* sp. nov., *Lipomyces tropicalis* sp. nov., and *Lipomyces kalimantanensis* f.a., sp. nov. isolated from soil from the Maratua and Kalimantan Islands, Indonesia. Mycoscience 58, 413–423.
- Zellagui, A., Gherraf, N., Ladjel, S., Hameurlaine, S., 2012. Chemical composition and antibacterial activity of the essential oils from *Launaea resedifolia* L 2010–2013.