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DAFTAR PUSTAKA

Ageitos, J. M., Vallejo, J. A., Viega-Crespo, P., Villa, Tomas G. (2011) 'Oily yeasts as oleaginous cell factories', *Applied Microbiology and Biotechnology*, 90(4), pp. 1219-1227.

Amir, A., Morsy, E. M. and Sedik, M. Z. (2015) 'Yeasts as a Promising Tool for Microbial Oil Production', *Middle East Journal of Agriculture*, 04(02), pp. 223–231.

Angerbauer, C., Siebenhofer, M., Mittelbach, M., Guebitz, G. M. (2008) 'Conversion of sewage sludge into lipids by Lipomyces starkeyi for biodiesel production', *Bioresource Technology*, 99(8), pp. 3051–3056.

Anjani, K. . and Ilmi, M. (2018) 'Screening of Oleaginous Yeast Isolates from Flower Nectar and Wild Honey', *Jurnal Mikologi Indonesia*, 2(2), pp. 100–111.

Bansal, N., Khot, M. B., Jana, Arijit., Nautiyal, Abhilek., Sharma, Tripti., Dasgupta, Diptarka., Mohapatra, Swati., Yadav, Sanoj Kumar., Hazra, Saugata. (2018) 'Oleaginous Yeasts: Lignocellulosic Biomass Derived Single Cell Oil as Biofuel Feedstock' in Kuila, Arindam and Sharma, Vinay. (eds.) *Principles and Applications of Fermentation Technology*. Massachusetts : Scrivener Publishing LLC, pp. 263-305.

Beopoulos, A. and Nicaud, J.-M. (2012) 'Yeast: A new oil producer?', *Oléagineux Corps Gras Lipides*, 19(1), pp. 22–28.

Bettelheim, F. A., Brown, William H., Campbell, Mary K., Farrell, Shawn O. (2009) *Introduction to Organic and Biochemistry*.7th edn. Canada : Cengage Learning (William H. Brown and Lawrence S. Brown Series).

Blich, E. G. and Dyer, W. J. (1959) 'A Rapid Method of Total Lipid Extraction and Purification', *Canadian Journal of Biochemistry and Physiology*, 37(8), pp. 911–917.

Brown, D. E., Hasan, M., Lepe-Casillas, M., Thornton, A. J., (1990) 'Effect of temperature and pH on lipid accumulation by Trichoderma reesei', *Applied Microbiology and Biotechnology*, 34(3), pp. 335–339.

Chang, Y.; Chang, K.; Jang, H.; Hsu, C. (2011) 'Effect of carbon source and high

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C/N ratio in the cellulosic hydrolysate-based media on the crude lipid contents and unsaturated fatty acid compositions of yeasts.', *11th International Congress on Engineering and Food*, pp. 1–6.

Chang, H. N. (2018) *Emerging Areas in Bioengineering*. 7th edn. India : John Wiley & Sons. pp 25.

Fifendy, M. B. (2017) *Mikrobiologi*. 1st edn. Bogor : Kencana. pp 65.

Fontanille, P., Kumar, Vinod., Christophe, Gwendoline., Nouaille, Regis., Larroche, Christian (2012) 'Bioconversion of volatile fatty acids into lipids by the oleaginous yeast Yarrowia lipolytica', *Bioresource Technology*. 14, pp. 443–449.

Gandjar, I. (2006) *Mikologi Dasar dan Terapan*. 1st edn. Jakarta : Yayasan Obor Indonesia. pp 74.

Hambali, Erliza., Mujdalifah, Siti. Halomoan, Armansyah., Tambunan, Pattiwiri, Abdul Waries., Hendroko, Roy. (2007) *Teknologi Bioenergi*.1st edn. Indonesia : PT AgroMedia Pustaka. pp 48-49.

Jiru, T. M., Groenewald, Marizet., Pohl, Carolina., Steyn, Laurinda., Kinggindu, Nicholas., Abate, Dawit. (2017) 'Optimization of cultivation conditions for biotechnological production of lipid by Rhodotorula kratochvilovae (syn, Rhodosporidium kratochvilovae) SY89 for biodiesel preparation', *3 Biotech*, 7(2), pp. 145-155

Juanssilfero, A. B., Kahar, Prihardi., Amza, Rezky L., Miyamoto, Nao., Otsuka, Hiromi., Matsumoto, Hana., Kihira, Chie., Thontowi, Ahmad. Yopi., Ogino, Chiaki., Prasetya, Bambang., Kondo, Akihiko. (2018) 'Effect of inoculum size on single-cell oil production from glucose and xylose using oleaginous yeast Lipomyces starkeyi', *Journal of Bioscience and Bioengineering*, 125(6), pp. 695–702.

Kitcha, S. and Cheirsilp, B. (2011) 'Screening of Oleaginous Yeasts and Optimization for Lipid Production Using Crude Glycerol as a Carbon Source', *Energy Procedia*, 9, pp. 274–282.

Kolouchová, I., Mat'atkova, Olga., Sigler, Karel., Masak, Jan., Rezanka, Tomas. (2016) 'Production of palmitoleic and linoleic acid in oleaginous and nonoleaginous yeast biomass', *International Journal of Analytical Chemistry*,

PRODUKSI LIPID DARI KHAMIR Zygosaccharomyces siamensis Saksinchai et al. AP1 ASAL MADU HUTAN
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4, pp 1-9.

Kraisintu, P., Yongmanitchai, W. and Limtong, S. (2010) 'Selection and optimization for lipid production of a newly isolated oleaginous yeast, rhodosporidium toruloides DMKU3-TK16', *Kasetsart Journal - Natural Science*, 44(3), pp. 436–445.

Kuila, A. and Sharma, V. (2018) *Principles and Applications of Fermentation Technology*. 1st edn. USA : John Wiley & Sons.

Lasztity, R. (2017) *Use of Yeast Biomass in Food Production*. 1st edn. Boston : CRC Press. pp 62.

Lee, B. H. (2014) *Fundamentals of Food Biotechnology*.2nd edn. Canada : John Wiley & Sons. pp 207.

Lin, L., Cunshan, Zhou., Vittayapadung, Saritporn., Xiangqian, Shen., Mingdong, Dong., (2011) 'Opportunities and challenges for biodiesel fuel', *Applied Energy*, 88(4), pp. 1020–1031.

Love, J. and Bryant, J. A. (2017) *Biofuels and Bioenergy*. 1st edn. India : John Wiley & Sons. pp 40.

Martínez, E. J., Raghavan, Vijaya., Gonzales-Andres, Fernando., Gomez, Xiomar (2015) 'New biofuel alternatives: Integrating waste management and single cell oil production', *International Journal of Molecular Sciences*, 16(5), pp. 9385–9405.

Meng, X., Yang, Jianming., Xu, Xin., Zhang, Lei., Nie, Qingjuan., Xian, Mo. (2009) 'Biodiesel production from oleaginous microorganisms', *Renewable Energy*, 34(1), pp. 1–5.

Mohammed, D. M., El Zaher, Fatma H. A., Hassan, Enass A., El Maksoud, H. K. A., Ramadan, E. M. (2018) 'Factors Affecting Microbial Oil Accumulation by Oleaginous Yeast', *Annual Research & Review in Biology*, 23(2), pp. 1–12.

Moreton, R. S. (1988) *Single cell oil*. 1st edn. California : Longman Scientific & Technical (Rnb Series).

Nitbani, F. O. (2018) *Gliserol: Sampah Biodiesel Bernilai Emas*. 1st edn. Yogyakarta : Deepublish. pp 6.

Nomanbhay, S., Hussein, R. and Ong, M. Y. (2018) 'Sustainability of biodiesel

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PRODUKSI LIPID DARI KHAMIR Zygosaccharomyces siamensis Saksinchai et al. AP1 ASAL MADU HUTAN
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production in Malaysia by production of bio-oil from crude glycerol using microwave pyrolysis: A review', *Green Chemistry Letters and Reviews*, 11(2), pp. 135–157.

Papanikolaou, S. and Aggelis, G. (2011) 'Lipids of oleaginous yeasts. Part II: Technology and potential applications', *European Journal of Lipid Science and Technology*, 113(8), pp. 1052–1073.

Patel, A., Arora, Neha., Mehtani, Juhi., Pruthi, Vikas., Pruthi, Parul A. (2017) 'Assessment of fuel properties on the basis of fatty acid profiles of oleaginous yeast for potential biodiesel production', *Renewable and Sustainable Energy Reviews*, 77, pp. 604–616.

Patil, U., Chaudari, A. B., Kulkarni, J.S., Chincholkar, S. B. (2008) *Foundations In Microbiology*.5th edn. India : Nirali Prakashan.pp 17.

Polburee, P., Yongmanitchai, Wichien., Lertwattanasakul, Noppon., Ohashi, Takao., Fujiyama, Kazuhito., Limtong, Savitree. (2015) 'Characterization of oleaginous yeasts accumulating high levels of lipid when cultivated in glycerol and their potential for lipid production from biodiesel-derived crude glycerol', *Fungal Biology*, 119(12), pp. 1194–1204.

Prihatini, M. and Ilmi, M. (2018) 'Characterization and Numerical Classification of Yeasts Isolated from Wild Honey in Central Sulawesi', *Jurnal Mikologi Indonesia*, 2(2), pp. 122–127.

Rao, D. G. (2005) *Introduction to Biochemical Engineering*.2nd edn. New Delhi : Tata McGraw-Hill (Chemical engineering series). pp 158.

Ratledge, C. (2002) 'Regulation of lipid accumulation in oleaginous micro-organisms.', *Biochemical Society transactions*, 30(6), pp. 1047–50.

Ratledge, C., Dawson, P. S. S. and Rattray, J. (1984) 'Biotechnology for the Oils and Fats Industry', *Fette Seifen Anstrichmittel*, 86(10), pp. 379-389.

Ratledge, C. and Wynn, J. P. (2002) 'The biochemistry and molecular biology of lipid accumulation in oleaginous microorganisms.', *Advances in applied microbiology*, 30(6), pp. 1–51.

Rattray, J. B., Schibeci, A. and Kidby, D. K. (1975) 'Lipids of yeasts.', *Bacteriological reviews*, 39(3), pp. 197–231.

Robyt, J. F. (2012) *Essentials of Carbohydrate Chemistry*.1st edn. New York :

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Universitas Gadjah Mada, 2019 | Diunduh dari http://etd.repository.ugm.ac.id/

Springer Science and Business Media. pp 8

Singh, L. K. and Chaudhary, G. (2017) *Advances in Biofeedstocks and Biofuels, Volume 2: Production Technologies for Biofuels.*2nd edn. India : John Wiley and Sons. pp 108-110

Spagnuolo, M., Yaguchi, A. and Blenner, M. (2019) 'Oleaginous yeast for biofuel and oleochemical production', *Current Opinion in Biotechnology*. 57, pp. 73-81.

Suryana, D. (2012) *Provinsi-Provinsi Di Indonesia: Tempat-Tempat Di Provinsi Indonesia*.1st edn. Indonesia : Createspace Independent Publication. pp 526

Sutanto, S., Zullaikhah, Siti., Tran-Nguyen, Phuong Lan., Ismadji, Suryadi., Ju, Yi-Hsu (2018) 'Lipomyces starkeyi: Its current status as a potential oil producer', *Fuel Processing Technology*, 177, pp. 39–55.

Walker, G. M. (1998) *Yeast Physiology and Biotechnology*.1st edn. New York : John Wiley % Sons. pp 67.

Ykema, A., Verbreee E. C., van Verseveld, H.W., Smit, H. (1986) 'Mathematical modelling of lipid production by oleaginous yeasts in continuous cultures', *Antonie van Leeuwenhoek*, 52(6), pp. 491–506.

Yousuf, A. (2012) 'Biodiesel from lignocellulosic biomass - Prospects and challenges', *Waste Management*, 32(11), pp. 2061–2067.

Zapata-Vélez, A. M. and Trujillo-Roldán, M. A. (2010) 'The lack of a nitrogen source and/or the C/N ratio affects the molecular weight of alginate and its productivity in submerged cultures of Azotobacter vinelandii', *Annals of Microbiology*, 60(4), pp. 661–668.

Zhu, L. Y., Zong, M. H. and Wu, H. (2008) 'Efficient lipid production with Trichosporon fermentans and its use for biodiesel preparation', *Bioresource Technology*, 99(16), pp. 7881–7885.