



DAFTAR PUSTAKA

- Alemayehu, D., L.M. Gordon, M.M. O'Mahony, N.D. O'Leary, dan A.D.W. Dobson. 2004. Cloning and functional analysis by gene disruption of a novel gene involved in indigo production and fluoranthene metabolism in *Pseudomonas alcaligenes* PA-10. *FEMS Microbiology Letters* 239: 285–293.
- Alquati, C., M. Papacchini, C. Riccardi, S. Spicaglia, dan G. Bestetti. 2005. Diversity of naphthalene-degrading bacteria from a petroleum contaminated soil. *Annals of Microbiology* 55: 237-242.
- Arnou, L.E. 1937. Colorimetric determination of the components of 3,4-dihydroxyphenylalaninetyrosine mixtures. *The Journal of Biological Chemistry* 118: 531-537.
- Austen, R.A. dan N.W. Dunn. 1980. Regulation of the plasmid-specified naphthalene catabolic pathway of *Pseudomonas putida*. *Journal of General Microbiology* 117: 521-528.
- Bhushan, B., S.K. Samanta, dan R.K. Jain. 2000. Indigo production by naphthalene-degrading bacteria. *Letters in Applied Microbiology* 31: 5-9.
- Bubinas, A., G. Giedraitytė, L. Kalėdienė, O. Nivinskiene, dan R. Butkiene. 2008. Degradation of naphthalene by thermophilic bacteria via a pathway, through protocatechuic acid. *Central European Journal of Biology* 3: 61-68.
- Buscio, V., M. Crespi, dan C. Gutiérrez-Bouzán. 2014. A critical comparison of methods for the analysis of indigo in dyeing liquors and effluents. *Materials* 7: 6184-6193.
- Dubey, N. dan L. Jain. 2013. Bio-indigo production by hydrocarbon degrading *Acinetobacter* sp. GRJ. *Biosciences Biotechnology Research Asia* 10: 283-288.
- Eaton, R.W. dan P.J. Chapman. 1995. Formation of indigo and related compounds from indolecarboxylic acids by aromatic acid-degrading bacteria: chromogenic reactions for cloning genes encoding dioxygenases that act on aromatic acids. *Journal of Bacteriology* 177: 6983-6988.
- Ensley, B.D., B.J. Ratzkin, T.D. Osslund, dan M.J. Simon. 1983. Expression of naphthalene oxidation genes in *Escherichia coli* results in the biosynthesis of indigo. *Science* 222: 167-169.
- EPA. 2002. Persistent, Bioaccumulative and Toxic Chemicals: Naphthalene. http://www.epa.ohio.gov/portals/41/p2/mercury_pbt/fact101.pdf. Diakses tanggal 25 Maret 2015.



- Gupta, B. 2012. Isolation and characterization of naphthalene degrading bacteria. Thesis. Department of Biotechnology and Environmental Sciences Thapar University, Patiala.
- Han, G.H., H. Shin, dan S.W. Kim. 2008. Optimization of bio-indigo production by recombinant *E. coli* harboring *fmo* gene. *Enzyme and Microbial Technology* 42: 617–623.
- Kulakov, L.A. , C.R.A. Christopher, D.A. Lipscomb, dan M.J. Larkin. 2000. Cloning and characterization of a novel cis-naphthalene dihydrodiol dehydrogenase gene (*narB*) from *Rhodococcus* sp. NCIMB12038. *FEMS Microbiology Letters* 182: 327-331.
- Kusnadi, Y. 2015. Isolasi dan identifikasi bakteri selulolitik dan lipolitik dari rayap. Skripsi. Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta.
- NPIC. 2010. Naphthalene: Technical Fact Sheet. <http://npic.orst.edu/factsheets/naphtech.html>. Diakses Tanggal 25 Maret 2015.
- O’connor, K.E. dan S. Hartman. 1998. Indigo formation by aromatic hydrocarbon-degrading bacteria. *Biotechnology Letter* 20: 219–223.
- O’connor, K.E., A.D.W. Dobson, dan S. Hartmans. 1997. Indigo formation by microorganisms expressing styrene monooxygenase activity. *Applied And Environmental Microbiology* 63: 4287-4291.
- Pathak, H dan D. Madamwar. 2010. Biosynthesis of indigo dye by newly isolated naphthalene-degrading strain *Pseudomonas* sp. HOB1 and its application in dyeing cotton fabric. *Application of Biochemical and Biotechnology* 160: 1616-1626.
- Qu, Y., Q. Ma, X. Zhang, H. Zhou, X. Li, dan J. Zhou. 2012. Optimization of indigo production by a newly isolated *Pseudomonas* sp. QM. *Journal of Basic Microbiology* 52: 687-694.
- ScienceLab. 2013. Material Safety Data Sheet: Naphthalene. <http://www.sciencelab.com/msds.php?msdsId=9927671>. Diakses Tanggal 25 Maret 2015.
- Seo, J., Y. Keum, dan Q.X. Li. 2009. Bacterial degradation of aromatic compounds. *International Journal of Environmental Research and Public Health* 6: 278-309.
- Sheila. 2013. Identifikasi bakteri pendegradasi limbah minyak bumi penyusun biofilm pada permukaan jamur. Skripsi. Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta.



- Tomás-Gallardo, L., H. Gómez-Álvarez, E. Santero, dan B. Floriano. 2013. Combination of degradation pathways for naphthalene utilization in *Rhodococcus* sp. strain TFB. *Microbial Biotechnology* 7: 100-113.
- Utami, D. 2012. Kemampuan degradasi hidrokarbon minyak bumi oleh co-culture jamur dan bakteri dalam bentuk biofilm. Skripsi. Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta.
- Venil, C.K., Z.A. Zakariab, dan W.A. Ahmad. 2013. Bacterial pigments and their applications. *Process Biochemistry* 48: 1065–1079.
- Yen, K.M., M.R. Karl, L.M. Blatt, M.J. Simon, R.B. Winter, P.R. Fausset, H.S. Lu, A.A. Harcourt, dan K.K. Chen. 1991. Cloning and characterization of a *Pseudomonas mendocina* KR1 gene cluster encoding toluene-4-monooxygenase. *Journal of Bacteriology* 173: 5315-5327.
- Zeinali, M., M. Vossoughi, dan S.K. Ardestani. 2008. Naphthalene metabolism in *Nocardia otitidiscaviarum* strain TSH1, a moderately thermophilic microorganism. *Chemosphere* 72: 905-909.
- Zhang, X., Y. Qu, Q. Ma, H. Zhou, X. Li, C. Kong, dan J. Zhou. 2013. Cloning and expression of naphthalene dioxygenase genes from *Comamonas* sp. MQ for indigoids production. *Process Biochemistry* 48: 581–587.
- Zhou, N., J. Al-Dulayymi, M.S. Baird, dan P.A. Williams. 2002. Salicylate-5-hydroxylase from *Ralstonia* sp. strain U2: a monooxygenase with close relationships to and shared electron transport protein with naphthalene dioxygenase. *Journal of Bacteriology* 184: 1547-1555.
- Zhou, Z., D. He, X. Li, H. Zhang, X. Zeng, dan G. Cheng. 2013. Isolation and characterization of naphthalene-degrading strains, *Pseudomonas* sp. CZ2 and CZ5. *African Journal of Microbiology Research* 7: 13-19.