DAFTAR PUSTAKA

Addy, H. S. 2008. Pengaruh sumber karbon terhadap daya antagonistik bakteri pseudomonas pendar fluor terhadap *Erwinia carotovora*. *Jurnal pengendalian hayati*. Vol **1** (1): 12-16.

Advinda, L. 2009. Tanggap Fisiologi Tanaman Pisang yang Diintroduksi dengan Formula Pseudomonad Fluoresen terhadap Blood Disease Bacteria. *Disertasi*. Program Pascasarjana Universitas Andalas. Padang: Universitas Andalas.

Agustini, D. M., Lilis, S. A., Noerdin, D., Dilar, R. 2012. Penentuan waktu optimum pelepasan HCN dan kadar sianida pada ubi kayu (*Manihot esculenta* Crantz). *Aristoles*. Vol **10** (1):9-16.

Ahmed, E., dan Holmstrom, S. J. M. 2014. Siderophore in environmental research : roles and application. *Microbial biotechnology*. Vol **7**(3):196-208.

Alexander, M. 1977. Introduction to soil microbiology 2 nd ed. John Willey&Son. New York.

Alexander, D. B., and D. A. Zuberer. 1991. Use of chrome azural S reagent to evalute siderophore production by rhizosphere bacteria. *Biol. Soils*. Vol **2**:39-45.

Ambrosi, C., Leoni, L., Putignani, L., Orsi, N., dan Visca, P. 2000. Pseudobactin biogenesis in the plant growth promoting rhizobacterium *Pseudomonas* strain B10: identification and functional analysis of the L- ornithine N-oxygenase (psbA) gene.*Journal of bacteriology*. Vol **182** (21).

Armaleni. 2013. Uji antagonis isolat pseudomonad fluorescent dengan *Ralstonia solanacearum* penyebab penyakit layu pada tanaman tomat. *Skripsi*. Universitas Negeri Padang.

Beare, P., For, R. J., Martin, L, W., dan Lamont, I. L. 2003. Siderophore-mediated cell signalling in *Pseudomonas syringae*: divergent pathways regulated virulance factor production and siderophore receptor synthesis. *Microbiology open.* Vol **47** (1):195-207.

Berges, M. S. L., Javier, C., David, T., Lukas, S., Sandra, M., Christoph, J., Pierre, C., Josep, G., Hubertus, H., dan Antonio, D. P. 2012. HapX-mediated iron homeostatis is essential of rhizosphere competence and virulence of the soilborne pathogen *Fusarium oxysporum*. *American society of plants biologist*. Vol **24** (9) :3805-3822.

Blanco, M. J., Koen, M. G. M., Per, E. P. 2001. Analysis of the *pms*CEAB gene cluster involved in biosynthesis of salicylic acids and siderophore pseudomonine in the biocontrol strain *Pseudomonas fluorescent* WCS374. *Journal of Bacteriology*. Vol **183** (6):1909-1920.

Blumer, C., and Haas. 2000. Mechanism, regulation, and ecological role of bacterial cyanide biosynthesis. *Arch. Microbial*. Vol 173:170-177.

Boukhalfa, H dan Crumbliss, A. L. 2002. Chemical aspect of siderophores mediated iron transport. *Biometals*. Vol **15**(4): 325-339.

Budzikiewics, H. 2001. Siderophore-antibiotic conjugates used as Trojan horses againts *Pseudomonas aeruginosa. Current Topic in Medical Chemistry*. Vol **1**(1): 73-82

Bultreys, A., dan Isabellen, G. 2000. Production and comparison of peptide siderophore from strains of distantly related pathovars of *Pseudomonas syringae* and *Pseudomonas viridiflava* LMG 2352. *Microbiology*. Vol **66** (1):325-331.

Caesar, A. J dan Burr, T. J. 1991. Effect of conditioning, betaine, and sucrose on survival of rhizobacteria in powder formulation. *Appl. Environ. Microbial.* Vol **57**(1): 168-172.

Castric, K. F dan Castric, P. A. 1983. Method for Rapid Detection of Cyanogenic Bacteria. *Applied and Environmental Microbiology*. Vol **45**(2): 701-702.

Cook, R. J and K. F. Baker, 1996. The nature and practise of biocontrol of plant pathogens. *The American Phytopathology Society*.

Dawes, I. W dan Sutherland, I. W. 1976. *Microbial physiology*. John wiley and sons: Toronto.

Dirmawati, S. R. 2003. Kajian komponen pengendalian ramah lingkungan penyakit pustul bakteri pada tanaman kedelai. *Disertasi online.* Institut Pertanian Bogor.

Dowling, D. N and O., Gara. 1994. Metabolic of pseudomonas involved in biological control of plant disease. *TIBTECH*. Vol **12** (1): 135-141.

Duffy, B. K and Defago. 1999. Environmental factor modulating antibiotic and siderophore biosyntesis by *Pseuodomnas fluorescens* biocontrol strains. *Applied and Environmental Microbiology.* Vol **65** (6): 2429-2438.

Eliza., Abdul, M., Djatnika, I., dan Widodo. 2007. Karakteristik fisiologis dan peranan antibiosis bakteri perakaran Graminae terhadap Fusarium dan pemacu pertumbuhan tanaman Pisang. *Jurnal Hortikultura*. Vol **17** (2): 150-160.

Essen, A. S., Anna, J., Dan, B., Karsten, P., dan Ulla, S. L. 2007. Siderophore production by Pseudomonas *stutzeri* under aerobic and an aerobic conditions. *Microbiology*. Vol **73** (18):5857-5864.

Giyanto, dan Efi, T. T. 2009. Kajian pemanfaatan limbah organik cair untuk pembiakan masal agens antagonis *Pseudomonas fluorescent* serta uji potensinya sebagai bio-pestisida. *Jurnal ilmu pertanian Indonesia*. Vol **14** (2):97-107.

Habazar, T dan Yaherwandi. 2006. *Pengendalian hayati hama dan penyakit tumbuhan.* Padang : Universitas Andalas Press.

Hadioetomo, R. S. 1993. *Mikrobiologi dasar dalam praktek*. Jakarta: PT. Gramedia Pustaka.

Halder, A. K., Misra, A. K., Bhattacharyya and Chakrabarty. 1990. Solubilization of rock phospate by Rhizobium and Bradyrhizobium. *Journal Gen. Appl. Microbial*. Vol **36** (1): 81-92.

Hasannudin. 2003. Peningkatan peranan mikroorganisme dalam sistem pengendalian penyakit tumbuhan secara terpadu. *Digitized by USU library*.

Kalinowski, B. E., Liermann, L. J., Barntly, S. L., Barnes, A. S dan Pantano, C. G. 2000. X-ray photoelectron evidence for bacteria-enhanced dissolution of hornblende. *Geochim Cosmochim Acta*. Vol **64**(8): 1331-1343.

Kloepper, J. W., dan Scroth, M. N. 1981. Development of powder formulation of rhizobacteria for inoculation of potato seed pieces. *Phytopathology*. Vol **71**.

Knowles, C. J. 1976. Microorganism and Cyanide. *Microorganisms reviews*. Vol **40** (3):652-680.

Kumar, A., Devi, S., Patil, S., Payal and Negi, S. 2012. Isolation, screening, and characterization of bacteria from rhizospheric soils for different plant growth promotion activities; an in vitro study. *Recent. Res. Scie. Technology*. Vol **4**;01-05.

Kurniawati, S., Kikin, H. M., Giyanto. 2015. Eksplorasi dan uji senyawa bioaktif bakteri agensia hayati untuk pengendalian penyakit kresek pada padi.*J. HPT Tropika*. Vol **15** (2): 170-179

Loper, J. E., dan Marcella, D. H. 1999. Utilization of heterologous siderophores enchagelevels of iron available to *Pseudomonas putida* in rhizosphere. *Microbiology*. Vol **65** (12).

Meyer, J. M dan Abdallah, M. A. 1978. The fluorescent pigmen of Pseudomonas fluorescent: Biosynthesis, purification and physicochemical properties. *J. Gen. Microbial*. Vol **107** (2): 319-328.

Meyer, J. M., Geoffroy, V. A., Baida, N., Gardan, L., Izard, D., Lemanceaue, P. 2002. Siderophore typing, a powerful tool for the identification of fluorescent and nonfluorescent *Pseudomonas*. *Appl Environ Microbial*. Vol **68**: 2745-2753.

Nakkeran, S, Fernando, W. G. D dan Siddiqui, Z. A. 2005. Plant growth promoting rhizobacteria formulations and its scope in commercialization for the management of pest ang diseases Z. A. Siddieque (ed.), PGPR: *Biocontrol and biofertilization*, 257-296.

Nasir, N., Abdi, D., Mai, E., Yuhendra, Fredrika, E. 2014. Natural product of wild zingiberacea *Elettariopsis slahmong*: Biopesticide to control the vector of Banana Blood Disease Bacterium in West Sumatera, Indonesia. *Research journal of Pharmaceutical, Biological and Chemical Sciences*. Vol **5**(5): 1250-1256.

Nawangsih, A. A. 2006. Seleksi dan karakteristik bakteri biokontrol untuk mengendalikan penyakit layu bakteri (*Ralstonia solanacearum*) pada tomat. *Disertasi*. Bogor. Institut Pertanian Bogor.

Neilands, J. B. 1995. Siderophores: structures and functional of microbial iron transport compounds. *The journal of Biologycal Chemistry*. Vol **270**(42): 26723-26726.

Nurjani. 2011. Kajian pengendalian penyakit layu bakteri (*Ralstonia solanacearum*) menggunakan agens hayati pada tanaman tomat. *Suara perlindungan tanaman*. Vol **1**(4):1-8.

Owen, J. G., dan David, F. A. 2011. Characterization of pyoverdine and achromobactin in *Pseudomonas syringae* pv phaseolica 1448a. *BMC Microbiology*. Vol **11** (218)

Özaktan, H., dan Bra, T. 2004. Biological control of fore blight in pear orchards with a formulation of *Pantoea agglomerans* strain Eh 24. Braz. J. Microbiology. Vol **3**.

Parida, I. 2012. Seleksi dan karakteristik bakteri penghasil siderofor sebagai agen antagonis *Ralstonia solanacearum* pada tomat. *Skripsi online*. Institut Pertanian Bogor.

Persley, G. J. 1985. Ecology of *Pseudomonas solanacearum*, the gausal agent of bacterial wilt. *In Bacterial wilt disease in Asian and South Pacific*. Proc Int Workshop at PCARRD. *Australian center International agricultural research*. No. 13:126-143.

Premono, E. M. 1994. Jasad renik pelarut fosfat, pengaruhnya terhadap P tanah dan efisiensi pemupukan P tanaman tebu. *Disertasi Online*. Pascasarjana ITB.

Purba, M. E. K. 2009. Analisis Kadar Total Suspended Solid (TSS), Amoniak (NH_3), sianida (CN^-), dan Sulfida (S^{2-}) pada Limbah Cair BAPEDALSU. *Karya ilmiah.* Fakultas Matematika dan Pengetahuan Alam Universitas Sumatra utara.

Ryder, M. H., Stephes and Bowen. 1994. Improving plant productivity with rhizophere bacteria. *Plant Pathlogy Journal*. Vol **7** (11):87-93.

Rodriguez, H., Gonzalez , Goire and Bahsan. 2004. Gluconic acid production and phospate solubilazition by the plant growth promoting bacterium *azopirilium* spp. *Nature wissen schaften*. Vol **91** (1):552-555.

Ryall, B., Lee, X., Zlosnik, Hoshino, dan Williams. 2008. Bacteria of *Burkholderia cepacia* Complex are Cyanogenic Under Biofilm and Colonial Growth Condition. *Biomed Central Microbiology*. Vol **8**: 108.

Shirvani, M. and Nourbakhsh. 2010. Desferrioxamine-B adsorption to and iron dissolution from palygorskite and sepiolite. *Applied clay science*. Vol **48**: 393-397.

Saravanan, T. R., Bhaskaran and M. Muthusamy. 2004. *Pseudomonas fluorescens* induced enzymological changes in Banana roots (cv. Rasthali) againts fusarium wilt disease. *Plant Pathology Journal*. Vol **3** (2): 72-80.

Soepardi, H. 1999. *Sifat dan ciri tanah*. Bogor: Departemen Ilmu Tanah, Fakultas Pertanian, Institut Pertanian Bogor.

Soesanto. 2008. *Pengantar pengandalian hayati penyakit tanaman*. Raja Grafindo:Jakarta.

Subba, R. 1994. Mikroorganisme tanah dan pertumbuhan tanaman. Edisi kedua. Terjemahan Herawati susilo. UI Press.

Sulyanti, E. 2006. Kemampuan isolat-isolat alami Pseudomonad yang berflouresens sebagai indoset ketahanan tanaman pisang terhadap penyakit layu Fusarium. *Laporan Penelitian Dosen Muda.* Jurusan Hama dan Penyakit Tumbuhan. Fakultas Pertanian Universitas Andalas : Padang.

Suryadi, Y. 2009. Efektivitas *Pseudomonas fluorescent* terhadap penyakit layu bakteri *(Ralstonia solanacearum*) pada tanaman kacang tanah. *Jurnal Hama Penyakit Terpadu Tropika*. Vol **9** (2): 174-180.

Thakuria, D., Talukdar, N. C., Goswani., Hazarika, Z., Boro, B. C. Dan Khan, M. R. 2004. Characterization and screening of bacteria from rhizosphere of rice grown in acidic soil assam. *Current science.* Vol **86** (7): 978-985.

Vidyasekaran, P., Sethuraman, K., Rajappan, K., dan Vasumathi, K. 1997. Powder formulation of *Pseudomonas fluorescen* to control pigeonpea wilt. *Biol. Control*. Vol **8**:166-171.

Weller, D.M. 1983.Colonizaation of wheat roots by a fluorescent Pseuodomonads: suppresive take-all. *Phytopathology.*Vol **73** (11):1548-1553.

Wensing, A., Sacha, D. B., Petra, B., Dominique, E., Beate, V., Matthias, S. U. dan Helge, W. 2010. Impact of siderophore production by *Pseudomonas syringae* pv.syringae 22d/93 on epiphytic fitness and biocontrol activity against *Pseudomonas syringae* pv. glycinea1a/96. *Microbiology*. Vol **76** (9).

Wijayani, A., Wahyu, W. 2005. Usaha peningkatan kualitas beberapa varietas tomat dengan sistem budidaya hidroponik. *Ilmu pertanian*. Vol **12** (1):77-83.