DAFTAR PUSTAKA

Agustiansyah, S. Ilyas, Sudarsono, M. Machmud. 2013. Karakterisasi Rizobakteri yang Berpotensi Mengendalikan Bakteri *Xanthomonas oryzae* pv . *oryzae* dan Meningkatkan Pertumbuhan Tanaman Padi. Jurnal HPT Tropika 13(1): 42-51.

Akhtar, A., Hisamuddin, M.I. Robab, Abbasi, R. Sharf. 2012. Plant Growth Promoting Rhizobacteria : An overview. Jurnal National. Production Plant Resources 2(1): 19-31.

Ali, S.S., N.N. Vidhale. 2013. Bacterial Siderophore and Their Application: A Review. International Journal of Current Microbiology and Applied Science 2(12): 303-312.

Arora, N.K., S. Tewari, S. Singh, N. Lal. D.K. Maheshwari. 2012. PGPR for Protection of Plant Health Under Saline Conditions. In: D.K. Maheshwari (ed.) Bacteria Agrobiology: Stress Management. 239-258.

A'yun, K.Q., T. Hadiastono, M. Martosudiro. 2013. Pengaruh Penggunaan PGPR (*Plant Growth Promoting Rhizobacteria*) terhadap Intensitas TMV (*Tobacco Mosaic Virus*), Pertumbuhan, dan Produksi pada Tanaman Cabai Rawit (*Capsicum Frutescens* L.). Jurnal HPT 1(1):47-57.

Andriyani, R. 2006. Usaha Pengendalian Pencemaran Lingkungan Akibat Penggunaan Pestisida Pertanian. Jurnal Kesehatan Lingkungan 3(1): 95-106.

Badan Pusat Statistik. 2015. Produksi Jagung Menurut Provinsi. Badan Pusat Statistik Republik Indonesia. http://www.bps.go.id/linktabled/view/id/868 [7 Januari 2016].

Beattle, G.A. 2006. Plant-associated bacteria: Survey,Molecular Phylogeny, Genomics and Recent Advances. In: Gnanamanickam S.S. (ed) Plant-Assosiated Bacteria. Springer. Dordrecht. 1-56 hal.

Bhardwaj, D., M.W. Ansari, R.K Sahoo, N. Tuteja. 2014. Biofertilizer Function as Key Player in Suistainable Agriculture by Improving Soil Fertility, Plant Tolerance and Crop Productivity. Microb Cell Fact 13: 66.

Beneduzi, A., A. Ambrosini, L.M.P. Passaglia. 2012. Plant Growth-Promoting Rhizobacteria (PGPR): Their Ptentian as Antagonists and Biocontrol Agents. Genetics and Molecular Biology 35(4): 1044-1051.

Das, A.J., M. Kumar, R. Kumar. 2013. Plant Growth-Promoting Rhizobacteria (Pgpr): An Alternatif of Chemical Fertilizer for Suistainable, Environtment Friendly Agriculture. Research Journal of Agriculture and Foresty Sciences 1(4): 21-23.

Dey, R., K.K. Pal, D.M. Bhatt, S.M. Chauhan. 2004. Growth Promotion and Yield Enhancement of Peanut (Arachis hypogaea L.) by Application of Plant Growth-Promoting Rhizobacteria. Microbiological Research 159: 371-394.

Dobbelaere, S., J. E. Vanderleyden, Y. Okon. 2003. Plant Growth-Promoting Effects of Diazotrophs in the Rhizosphere. Crit Rev Plant Sci. 22: 107-149.

Erturk, Y., S. Ercisli, A. Haznedar, dan R. Cakmakel. 2010. Effect of Plant Growth Promoting Rhizobacteria (PGPR) on Rooting and Root Growth of Kiwi Fruit (*Actinidia deliclosa* Stem Cuttings). Bio. Res. 43: 91-98.

Fitria, I.N., T. Ardyati. 2014. Skrining Bakteri Asam Laktat Asal Susu Kambing Peranakan Etawa sebagai Penghasil Bakteriosin. Jurnal Biotropika 2(3): 164-168.

George, T.S., P.J. Gregory, M. Wood, D. Read, R.J. Buresh. 2002. Phosphatase Activity and Organic Acids in The Rhizosphere of Potential Agroforestry Species and Maize. Soil Biology and Biochemistry 34(10): 1487-1494.

Glick, I.D., J.H. Speneer, J.F. Clarkin. 1990. A Randomized Clinical Trial of Inpatient Family Intervention, IV: Follow-up Results for Subjects with Schizophrenia. Schizophr Res 3: 187-200.

Glick, B.R., Y. Bashan. 1997. Genetic Manipulation of Plant-Growth Promoting Bacteria to Enhance Biocontrol of Phytopathogen. Biotechnol Adv 15: 353-378.

Glick, B.R., Z. Cheng, J. Czany, J. Duan. 2007. Promotion of Plant Growth by ACC Deaminase-Producing Soil Bacteria. Eur J Plant Pathol 119: 329-39.

Gupta, G., S.S. Parihar, N.K. Ahirwar, S.K. Snehi, V. Singh. 2015. Plant Growth Promoting Rhizobacteria (PGPR): Current and Future Prospects for Development of Suistable Agriculture. J. Microb Biocham Technol 7(2): 96-102.

Haas, D., C. Keel. 2003. Regulation of Antibiotic Production in Root-Colonizing Pseudomonas spp. and Relevance for Biological Control of Plant Disease. Annu Rev Phytopathol 41: 117-153.

Haas, D., G. Defago. 2005. Biological Control of Soil-Bornepathogens by Fluorescent Pseudomonads. Nat Rev Microbiol 3: 307-319.

Harsanti, R.T. Rupendi, A. Purnama, Hanudin, B. Marwoto, O.S. Gunawan. 2009. Penapisan beberapa Isolat *Pseudomonas fluorescens*, *Bacillus subtilis* dan *Trichoderma harzianum* yang Bersifat Antagonistik terhadap *Ralstonia solanacearum* pada Tanaman Kentang. Jurnal Agrikultura 20(3): 198-203.

Hasanuddin. 2003. Peningkatan Peranan Mikroorganisme dalam Sistem Pengendalian Penyakit Tumbuhan Secara Terpadu. Usu Digital Library. 1-9.

Hu, Q.P., J.G. Xu. 2011. A Simple Double-Layer Chrome Azurol S Agar (SD-CASA) Plate Assay to Optimize The Production of Siderophores by A

Potential Biocontrol Agent *Bacillus*. African Journal of Microbiology Research 5(25): 4321-4327.

Husen, E. 2003. Screening of Soil Bacteria for Plant Growth Promotion Activities In Vitro. Indo J Agri Sci. 427-431.

Jatnika, W., A.L. Abadi, L.Q. Aini. 2013. Pengaruh Aplikasi *Bacillus* sp. dan *Pseudomonas* sp. terhadap Perkembangan Penyakit Bulai yang Disebabkan oleh Jamur Patogen *Peronosclerospora maydis* pada Tanaman Jagung. Jurnal Hama dan Penyakit Tumbuhan 1(4):19-29.

Kamilova, F., S. Validov, T. Azarova, I. Mulders, B. Lugtenberg. 2005. Enrichment for Enhance Competitive Plant Root Tip Colonizers Selects for A New Class of Biocontrol Bacteria. Environ Microbiol 7: 1809-1817.

Klement, Z., K. Rudolph., D.C. Sand. 1990. Methods in Phytobacteriology. Academia Kiado Budafest. 148 hal.

Kloepper, J.W., M.N. Schroth. 1978. Plant Growth-Promoting Rhizobacteria on Radish. 879-882. Dlm. Proc. 4th into Conf. Plant Pathogenic Bact. Gibert-Clarey, Tours, Franco.

Koutsoidis, M.D., D. Tsaltas, T.D Minogue, S.B. Von Bodman. 2006. Quorum-sensing Regulation Governs Bacterial Adhesion, Biofilm Development, and Host Colonization In *Pantoea stewartii* subspecies *stewartii*. 103 (15):5983-5988. PNAS. www.pnas.org/content/103/15/5983. full.pdf [16 Januari 2016].

Lipps, P.E., E. D. Anne, R. M. Dennis. 2001. Stewart's Bacterial Wilt and Leaf Blight of Corn. http://ohioline.osu.edu/ac-fact/0037.html [24 November 2015].

Loper, J.E., M.D. Henkels. 1999. Utilization of Heterologous Siderophore Enhances Levels of Iron Available to *Pseudomonas putida* in The Rhizosphere. Applied Environmental Microbiology 65: 5357-5363.

Machmud, M. 2001. Teknik Penyimpanan dan Pemeliharaan Mikroba. Buletin AgroBio 4(1):24-32. http://biogen.litbang.pertanian.go.id/terbitan/pdf/agrobio_4_1_24-32.pdf [10 Januari 2016].

Madigan, M.T., J.M. Martinko, J. Parker. 1997. Biology of Microorganisms. 8th ed. Prentice Hall pper Saddle River Press. London. 986 hal.

Marschner, P., D. Crowley, C.H. Yang. 2004. Development of Specific Rhizosphere Bacterial Communities in Relation to Plant Species, Nutrition and Soil Type. Plant and Soil 261: 199-208.

Maksimov IV, R.R. Abizgil'dina, L.I. Pusenkova. 2011. Plant Growth Promoting Rhizobacteria as Alternative to Chemical Crop Protectors from Pathogens (Review). Appl Biochem Microbial 47: 333-345.

McGinnis, M.R., A.A. Padhye, L. Ajello. 1974. Storage of Stock Culture of Filamentous Fungi, Yeast, and Some Aerobic Actinomycetes In Sterile Distilled Water. Applied Microbiology 28:218-222.

McKane, L., J. Kandel. 1998. Microbiology. Essentials and Applications. 2nd ed. McGraw-Hill, Inc. Philadelphia.

Meynet, C.E., J.F. Pothier, Y.M. Loccoz, C. Prigent. 2011. The *Psudomonas* Secondary Metabolite 2,4-Diacetyl-phoroglucinol is a Signal Inducing Rhizoplane Expression of *Azospirillium* Genes Involved in Plant-Growth Promotion. The American Phytopathological Society 24(2):271-284.

Mugiastuti, E., R.F. Rahayuniati, P. Sulistyanto. 2012. Pemanfaatan *Bacillus* sp. dan *Pseudomonas fluorescens* untuk Mengendalikan Penyakit Layu Tomat Akibat Sinergi *R. Solanacearum* dan *Meloidogyn*e sp. Prosiding Seminar Nasional Pengenbangan Sumber Daya Pedesaan dan Kearifan Lokal Berkelanjutan II. Purwokerto 27-28 November.

Munif, A., A. Hipi. 2011. Potensi Bakteri Endofit dan Rhizosfer dalam Meningkatkan Pertumbuhan Jagung. Seminar Nasional Serealia. http://balitsereal.litbang.pertanian.go.id/ind/images/stories/1upros11.pdf. [3 Desember 2015].

Neeraja, C., K. Anil, P. Purushotham, K. Suma, P. Sarma, B.M. Moerschbacher, A.R. Podile. 2010. Biotechnological Aproaches to Develop Bacterial Chitinases as A Bioshield Against Fungal Diseases of Plant Crit Rev Biotechnol 30: 231-241.

Ningsih, A.P., Nurmiati, A. Agustien. 2013. Uji Aktivitas Antibakteri Ekstrak Kental Tanaman Pisang Kepok Kuning (*Musa paradisiaca* Linn.) terhadap *Staphylococcus aureus* dan *Escherichia coli.* Jurnal Biologi Universitas Andalas 2(3):207-213.

Nugraha, R., T. Ardyati, Suharjono. 2014. Eksplorasi Bakteri Selulolitik yang Berpotensi sebagai Agen Biofertilizer dan Tanah Perkebunan Apel Kota Batu. Jurnal Biotropika. 2(3):159-163.

Osek, J. 2004. Phenotypic and Genotypic Characterization of *Escherichia coli* O157 Strains Isolated from Human, Cattle, and Pigs. Vet. Med-Czech. 9:317-326.

Pataky, J., R. Ikin. 2003. The Risk of Introducing *Erwinia stewartii* in Maize Seed. The International Seed Federation Chemin du Reposoir 7 Switzerland. 74 hal. http://www.apsnet.org/publications/apsnetfeatures/Pages/StewartsWilt.aspx [3 Desember 2015].

Pataky, J.K. 2004. Stewart Wilt of Corn. The Plant Health Instructor. http://www.apsnet.org/publications [3 Desember 2015].

Peraturan Menteri Pertanian Republik Indonesia Nomor 51/ Permentan/KR.010/9/2015. http://perundangan.pertanian.go.id [4 November 2016].

Phukan, I., M. Madhab, M. Bordoloi, S.R. Sarmah, P. Dutta, R. Begum, A. Tanti, S. Bora, S.C Nair, S. Rai, S. Debnath, B.K. Barthakur. 2012. Eksploitation of RPTT Microbes of Tea for Improvement of Plant Growth and Pest Suppression: A novel approach. Two and a Bud 59:69-2012.

Pratita, M.Y.E., S.R. Putra. 2012. Isolasi dan Identifikasi Bakteri Termofilik dari Sumber Mata Air Panas di Songgoriti Setelah Dua Hari Inkubasi. Jurnal Teknik Pomits 1(1):1-5.

Rachmiati, Y. 1995. Bakteri Pelarut Fosfat dari Rizozfer Tanaman dan Kemampuannya dalam Melarutkan Fosfat. Proseding Kongres Nasional VI HITI, Jakarta, 12-15 Desember 1995.

Rahma, H., Armansyah. 2008. Penyebaran Penyakit Stewart oleh Bakteri *Pantoea stewartii* sebagai Penyakit Baru pada Tanaman Jagung (Zea Mays) Studi Kasus di Pasaman Barat. http://www.repository.unand.ac.id/661/1/ ARTIKEL_Haliatur.doc [10 Januari 2016].

Rahma, H. 2013. Kajian Penyakit Layu Stewart pada Jagung yang Disebabkan oleh *Pantoea stewartii* subsp. *stewartii* dan Pengendaliannya dengan Agens Hayati [Disertasi]. Bogor. Sekolah Pascasarjana Institut Pertanian Bogor. 193 hal.

Rahma, H., M. S. Sinaga, M. Surahman Giyanto. 2014a. First Report of Stewart Wilt of Maize Caused by *Pantoea stewartii* subsp. *stewartii* In Bogor District, Indonesia. J. ISSAAS. 20(2): 131-141.

Rahma, H., Martinius., T. Maryono., R. Wulandari. 2014b. Deteksi cepat Patogen Terbawa Benih Jagung dengan Teknik PCR dalam Sistem Sertifikasi Benih. [Laporan Hasil Kegiatan]. Lembaga Penelitian dan Pengabdian Kepada Masyarakat. Universitas Andalas.

Rahni, N.M. 2012. Efek Fitohormon PGPR terhadap Pertumbuhan Tanaman Jagung (*Zea mays*). Agribisnis dan Pengembangan Wilayah 2(3): 27-35.

Ramamoorthy, V., R. Viswanathan, T. Raguchander, V. Prakasam, R. Samiyappan. 2001. Induction of Systemic Resistance by Plant Growth Promoting Rhizobacterian Crop Plants Against Pests and Diseases. Crop Protection. 20: 1-11. http://rvrmoorthy.tripod.com/crop_protection.pdf [16 Januari 2016].

Rao, N., S. Sinha. 1962. Soil Microorganisms and Plant Growth. Oxford and IBM Publishing Co. (Terjemahan H. Susilo. Mikroorganisme Tanah dan Pertumbuhan Tanaman. UI Press).

Rao, N.S. 1994. Advance in Agriculture Microbiology. Oxford & IBH Publ. Co. New Delhi, Bombay, Calcuta.

Richardson, A.E., R.J. Simpson. 2011. Soil Microorganisms Mediating Phosphorus Availability. Plant Physiology 156: 989-996.

Riley., M. 1993. Molecular Mechanisms of Colicin Evolution. Mol Biol Evol 10:1380-95.

Sallytha, A.A.M., H.S. Addy, P.A. Mihardjo. 2014. Penghambatan *Actinomycetes* terhadap *Erwinia carotovora* subsp. *carotovora* secara in-vitro. Berkala Ilmiah Pertanian 1(4): 70-72.

Schaad, N.W., J.B. Jones, W. Chun. 2001. Laboratory Guide for Identification of Plant Pathogenic Bacteria. Third Edition. APS Press. The American Phytopathological Society. St. Paul. Minnesota. 373 pp.

Sestria, N. 2011. Stabilitas Formula Bacillus subtilis Isolat RZ_2L_2K yang Disimpan pada Waktu dan Suhu Berbeda dalam Pengendalian Penyakit Layu dan Hawar Daun Stewart (*Pantoea stewartii* subsp. *stewartii*) Pada Tanaman Jagung. [Skripsi]. Padang: Universitas Andalas. 48 hal.

Sigee, D.C. 1993. Bacterial Plant Pathology. Cambrige. University Press.

Singh, J.S. 2013. Plant Growth Promoting Rhizobacteria Potential Microbes for Sustainable Agriculture. Resonance article. Maret 2013. Hal: 275-281.

Soesanto, L. 2013. Pengantar Pengendalian Hayati Penyakit Tanaman Edisi Kedua. Jakarta: PT Raja Grafindo Persada. 456 hal.

Stephens, P.M, J.J. Crowley, C. O'Connel. 1993. Selection of Pseudomonad Strains Inhibiting *Phylum ultimum* on Sugar Beet Seeds in Soil. Soil Biol Biochem 25: 1283-1288.

Suardana, I.W., I.H. Utama, M.H. Wibowo. 2014. Identifikasi *Escherichia coli* O157:H7 Dari Feces Ayam dan Uji Profil Hemolisisnya pada Media Agar Darah. Jurnal Kedokteran Hewan 8(1): 1-5.

Sugito, R. 2015. Efektivitas *Bacillus subtilis* dalam Formula Tepung yang Disimpan pada Waktu Berbeda dalam Mengendalikan Penyakit Layu Stewart pada Tanaman Jagung (*Zea may* L.) Di Lapangan. [Skripsi]. Padang: Universitas Andalas. 50 hal.

Susmawati. 2014. Budidaya Tanaman Jagung (Kajiwidya Di BBPP Binuang). Balai Besar Pelatihan Pertanian Binuang. [artikel]. 6 hal. http:// bbppbinuang.info/images/upload/file/Budidaya%20Jagung.pdf [18 Januari 2016].

Sutariati, G.A.K, Madiki A., A. Khaeruni. 2014. Integrasi Teknik Invigorasi Benih dengan Rizobakteri untuk Pengendalian Penyakit dan Peningkatan Hasil Tomat. Jurnal Fitopatologi Indonesia 10(6): 188-194.

Tatiek, H. 1991. Bakteri Pelarut Fosfat Asal Beberapa Jenis Tanah dan Efeknya terhadap Pertumbuhan dan Hasil Jagung (*Zea mays* L.). [Disertasi]. Universitas Padjadjaran. Bandung.

Taufik, M., A. Rahman, A. Wahab, S.H. Hidayat. 2010. Mekanisme Ketahanan Terinduksi oleh Plant Growth Promotting Rhizobacteria (PGPR) pada Tanaman Cabai Terinfeksi Cucumber Mosaik Virus (CMV). Jurnal Hortikultura 20(3):274-283.

Tombe, M. 2013. Potensi Rizobakteri Pemacu Tumbuh Tanaman sebagai Agen Pengendali Hayati Penyakit Tanaman Perkebunan yang Ramah Lingkungan. 12(2):91-100. http://perkebunan.litbang.pertanian.go.id/wpcontent/uploads/2014/05/perke-bunan_perspektif_vol1222013_4_Mesak.pdf [10 Januari 2016].

Van Loon, L.C. 2007. Plant Responses to Plant Groeth Promoting Rhizobacteria. Eur J Plant Pathol 119: 243-254.

Vessey, J.K. 2013. Plant Growth Promoting Rhizobacteria as Biofertilizers. Plant Soil 255: 571-586.

Viveros, O.M., M.A. Jorquera, D.E. Crowley, G. Gajardo, M.L. Mora. 2010. Mechanism and Partical Consideration by Rhizobacteria. Journal Soil Science Plant Nutrition 10(3): 293-319.

Von Bodman, S.B., W.D. Bauwer, D. L. Coplin. 2003. Quorum Sensing in Plant-Pathogenic Bacteria. Annu Rev Phytopathol 41: 455-482.

Wei, G., J.W. Kloepper, S. Tuzun. 1991. Induction of Systemic Resistance of Cucumber to *Collectotricum orbiclilare* by Select Strain of Plant Growth-Promoting Rhizobacteria. Phytopathology. 73: 1548-1553.

Yunasfi. 2008. Serangan Patogen dan Gangguan terhadap Proses Fisiologis Pohon. [Karya Tulis]. USU Repository.

Zhu, W., M.M. Magbanua, F.F. White. 2000. Identification of Two Novel *Hrp*-Associated Genes in The *Hrp* Gene Cluster of *Xanthomonas oryzae* pv. *oryzae*. J. Bacteriol 182: 1844-1853.

Zuraidah. 2013. Pengujian Beberapa Bakteri Penghambat Pertumbuhan *Xanthomonas oryzae* pv. *Oryzae* pada Tanaman Padi. Biologi Edukasi 5(1): 18-24.