DAFTAR PUSTAKA

Abasolo-Pacheco, F., Á. I. Campa-Córdova, J. M. Mazón-Suástegui, D. Tovar-Ramírez, R. Araya, & P. E. Saucedo. 2017. Enhancing growth and resistance to *Vibrio alginolyticus* disease in catarina scallop (*Argopecten ventricosus*) with *Bacillu*s sp. and *Lactobacillus* sp. probiotic strains during early development. Aquaculture Research 48(11) : 1–11.

Abasolo-Pacheco, F., P. E. Saucedo, J. M. Mazón-Suástegui, D. Tovar-Ramírez, R. Araya, J. M. Ramírez-Orozco, & Á. I. Campa-Córdova. 2015. Isolation and use of beneficial microbiota from the digestive tract of lions-paw scallop *Nodipecten subnodosus* and winged pearl oyster *Pteria sterna* in oyster aquaculture. Aquaculture Research 47(10) : 1-10.

Abdullah, A., M. Nurilmala, & K. P. Sitaresmi. 2019. DNA *mini-barcodes* sebagai penanda molekuler untuk ketertelusuran label pangan berbagai produk ikan layur. Jurnal Pengolahan Hasil Perikanan Indonesia 22(1) : 33–40.

Achmad, D. I., R. Nofiani, & P. Ardiningsih. 2012. Karakterisasi bakteri asam laktat *Lactobacillus* sp. RED1 dari cincalok formulasi. Jurnal Kimia Khatulistiwa 1(1): 1–5.

Andini, D., Zainuddin, M. Jalaluddin, Fitriani, U. Balqis, N. Asmilia, & Hamdan. 2017. Sebaran sel goblet pada usus lele lokal (*Clarias batrachus*). JIMVET 01(3) : 299–304.

Anggraini, R., A. Dwinna, & M. Siska. 2016. Identifikasi bakteri *Aeromonas Hydrophila* dengan uji mikrobiologi pada ikan lele dumbo (*Clarias Gariepinus*) yang dibudidayakan di Kecamatan Baitussalam Kabupaten Aceh Besar. Jurnal Imiah Mahasiswa Kelautan Dan Perikanan Unsyiah 1(2) : 270–286.

Arief, M., N. Fitriani, & S. Subekti. 2014. Pengaruh pemberian probiotik berbeda pada pakan komersial terhadap pertumbuhan dan efisiensi pakan ikan lele sangkuriang (*Clarias sp*.). Jurnal Ilmiah Perikanan dan Kelautan. 6 (1) : 49-53.

Atlas, R.M. 2010. Handbook of microbiological media. 4th ed. CRC Press. Washington D.C.

Austin, D. J., K. G. Kristinsson, & R. M. Anderson. 1999. The relationship between the volume of antimicrobial consumption in human communities and the frequency of resistance. Proceedings of the National Academy of Sciences of the United States of America 96(3) : 1152–1156.

Aziz, F., F. B. Lestari, S. Nuraidah, E. Purwati, & S. I. O. Salasia. 2016. Deteksi gen penyandi sifat resistensi metisilin, penisilin dan tetrasiklin pada isolat *Staphylococcus aureus* asal susu mastitis subklinis sapi perah. Jurnal Sain Veteriner 34(1) : 60–69.

Balaji N., K. M. Rajasekara, N. Kanapandian, V. Vignesh, & R. Thirumurugan. 2012. Isolation and screening of proteolytic bacteria from freshwater fish *Cyprinus carpio*. International Multidisciplinary Research Journal 2 (6) : 56–59.

Balcázar, J. L., I. de Blas, I. Ruiz-Zarzuela, D. Cunningham, D. Vendrell, & J. L. Múzquiz. 2006. The role of probiotics in aquaculture. Veterinary Microbiology 114(3-4) : 173–186.

Banerjee, G., & A. K. Ray. 2017. The advancement of probiotics research and its application in fish farming industries. Research in Veterinary Science 115 : 66–77.

Banerjee, S., A. Mukherjee, D. Dutta, & K. Ghosh. 2015. Evaluation of chitinolytic gut microbiota in some carps and optimization of culture conditions for chitinase production by the selected bacteria. Journal of Microbiology, Biotechnology and Food Sciences 5(1) : 12–19.

Bello-López, J. M., O. A. Cabrero-Martínez, G. Ibáñez-Cervantes, C. Hernández-Cortez, L. I. Pelcastre-Rodríguez, L. U. Gonzalez-Avila, & G. Castro-Escarpulli. 2019. Horizontal gene transfer and its association with antibiotic resistance in the genus *Aeromonas* spp. Microorganisms 7(9) : 1–11.

Boutin, S., C. Audet, & N. Derome. 2013. Probiotic treatment by indigenous bacteria decreases mortality without disturbing the natural microbiota of *Salvelinus fontinalis*. Canadian Journal of Microbiology 59 : 662–670.

BSN (Badan Standar Nasional). 2006. Pakan buatan untuk ikan lele (*Clarias gariepinus*). BSN (Badan Standardisasi Nasional). Jakarta.

BSN (Badan Standar Nasional). 2014. Ikan lele dumbo (*Clarias* sp.). Bagian 1 : induk. Badan Standarisasi Nasional. Jakarta.

Buchinger, T.J., W. Li, & N.S. Johnson. 2014. Bile salts as semiochemicals in fish. Chemical Senses 39 (8) : 647-54.

Chu, W. H. 2007. Optimization of extracellular alkaline protease production from species of *Bacillus*. Journal of Industrial Microbiology and Biotechnology 34(3) : 241–245.

Cui, Y., E. Märtlbauer, R. Dietrich, H. Luo, S. Ding, & K. Zhu. 2019. Multifaceted toxin profile, an approach toward a better understanding of probiotic *Bacillus cereus*. Critical Reviews in Toxicology 49(4) : 342–356.

da Silva, M., E. D. Ribeiro, D. A. Matoso, L. M. Sousa, T. Hrbek, L. R. Py-Daniel, & E. Feldberg. 2014. Chromosomal polymorphism in two species of *Hypancistrus* (siluriformes : loricariidae) : an integrative approach for understanding their biodiversity. Genetica 142 : 127–139.

Dey, A., K. Ghosh, & N. Hazra. 2016. Evaluation of extracellular enzyme-producing autochthonous gut bacteria in walking catfish, *Clarias batrachus* (L.). Journal of Fisheries 4(1) : 345.

Dias, J. A. R., H. A. Abe, N. C. Sousa, M. V. S. Couto, C. A. M. Cordeiro, J. O. Meneses, F. S. Cunha, J. L. P. Mouriño, M. L. Martins, L. A. L. Barbas, P. C. F. Carneiro, A. N. Maria, & R. Y. Fujimoto. 2018. Dietary supplementation with autochthonous *Bacillus cereus* improves growth performance and survival in tambaqui *Colossoma macropomum*. Aquaculture Research 49(9) : 3063–3070.

Fadllan, F., A. Djuminar, A. Tantan, A. Dermawan, & Ernawati. 2019. Perbandingan ekstraksi DNA *Salmonella Typhi* dari kultur darah metode *spin column* dan *alcohol based*. Jurnal Riset Kesehatan Poltekkes Depkes Bandung 11(2) : 232–243.

Fan, Y., J. Qiao, Z. Lu, Z. Fen, Y. Tao, F. Lv, H. Zhao, C. Zhang, & X. Bie. 2020. Influence of different factors on biofilm formation of *Listeria monocytogenes* and the regulation of cheY gene. Food Research International 137 : 1–13.

FAO (Food and Agriculture Organization of the United Nations). 2020. The state of world fisheries and aquaculture (SOFIA) 2020. Sustainability in Action. Rome. p 224.

FAO/WHO, 2006. Guidelines for the evaluation of probiotics in food. Food and Agriculture Organization of the United Nations and World Health Organization Working Groups Report. Rome. p 56.

Feliatra, Y. Fitria, & Nursyirwani. 2012. Antagonis bakteri probiotik yang diisolasi dari usus dan lambung ikan kerapu bebek (*Cromileptes Altivelis*) terhadap bakteri patogen. Jurnal Perikanan dan Kelautan 17(1) : 16–25.

Ghosh, S., A. Sinha, & C. Sahu. 2008. Dietary probiotic supplementation on growth and health of live-bearing ornamental fishes. Aquaculture Nutrition 14 : 289–299.

Gorden, J., & P. L. C. Small. 1993. Acid resistance in enteric bacteria. Infection and Immunity 61(1) : 364–367.

Gueimonde, M., B. Sánchez, C. G. de los Reyes-Gavilán, & A. Margolles. 2013. Antibiotic resistance in probiotic bacteria. Frontiers in Microbiology 4(202) : 1–6.

Gupta, R. S., S. Patel, N. Saini, & S. Chen. 2020. Robust demarcation of 17 distinct bacillus species clades, proposed as novel bacillaceae genera, by phylogenomics and comparative genomic analyses: description of robertmurraya kyonggiensis sp. nov. and proposal for an emended genus bacillus limiting it only to the members of the subtilis and cereus clades of species. International Journal of Systematic and Evolutionary Microbiology 70 (11) : 5753–5798.

Gupta, R., Q., Beg, & P. Lorenz. 2002. Bacterial alkaline proteases: molecular approaches and industrial applications. Applied Microbiology and Biotechnology 59 : 15–32.

Haetami, K., Y. Mulyani, Abun, & Junianto. 2019. Proteolitic potential of *Bacillus* sp. from fish gut. Scientific Papers. Series D. Animal Science LXII (2) : 53–59.

Handajani, H., S. D. Hastuti, & G. A. Wirawan. 2014. IbM pada kelompok tani ikan "Mina Untung" dan "Mina Lestari" di Kecamatan Kepanjen Kabupaten Malang. Dedikasi 11: 56–65.

Holzapfel, W. H., P. Haberer, J. Snel, U. Schillinger, & J. H. J. Huis In'T Veld. 1998. Overview of gut flora and probiotics. International Journal of Food Microbiology 41 : 85–101.

Ismail, Y. S., C. Yulvizar, & B. Mazhitov. 2019. Characterization of lactic acid bacteria from local cows milk kefir. IOP Conference Series: Earth and Environmental Science : 1–8.

Isnansetyo, A., & Y. Kamei. 2009. Anti – methicillin - resistant *Staphylococcus aureus* (MRSA) activity of MC21-B, an antibacterial compound produced by the marine bacterium *Pseudoalteromonas phenolica* O-BC30T. International Journal of Antimicrobial Agents 34 : 131-135.

Istiqomah, I., A. Isnansetyo, I. N. Atitus, & A. F. Rohman. 2019. Isolation of cellulolytic bacterium *Staphylococcus* sp. JC20 from the intestine of octopus (*Octopus* sp.) for fish probiotic candidate. Jurnal Perikanan Universitas Gadjah Mada 21(2) : 93–98.

Jaja, Suryani, A., & K. Sumantadinata. 2013. Usaha pembesaran dan pemasaran ikan lele serta strategi pengembanganya di UD Sumber Rezeki Parung, Jawa Barat. Manajemen IKM 8(1) : 45–56.

Jing, Wang & Ji. Haifeng. 2019. Influence of probiotics on dietary protein digestion and utilization in the gastrointestinal tract. Current Protein and Peptide Science 20(2):125-131.

Kar, N., Roy, S.K., Sen, & K. Gosh. 2008. Isolation and characterization of extracellular enzyme producing bacilli in the digestive tracts of rohu, *Labeo rohita* (Hamilton) and murrel, *Channa punctatus* (Bloch). Asian Fisheries Science 21 : 421-434.

Kaushik, S. J., & I. Seiliez. 2010. Protein and amino acid nutrition and metabolism in fish: current knowledge and future needs. Aquaculture Research 41 : 322–332.

Kesuma, B. W., Budiyanto, & B. Brata. 2019. Efektifitas pemberian probiotik dalam pakan terhadap kualitas air dan laju pertumbuhan pada pemeliharaan lele

sangkuriang (*Clarias gariepinus*) sistem terpal. NATURALIS Jurnal Penelitian Pengelolaan Sumberdaya Alam Dan Lingkungan 8(2) : 21–27.

Khan, M. A., N. Ahmad, A. U. Zafar, I. A. Nasir, & M. A. Qadir. 2011. Isolation and screening of alkaline protease producing bacteria and physio-chemical characterization of the enzyme. African Journal of Biotechnology 10(33) : 6203–6212.

Kismiyati, S. Subekti, R. Kusdarwati, & R. W. N. Yusuf. 2009. Isolasi dan identifikasi bakteri gram negatif pada luka ikan maskoki (*Carassius auratus*) akibat infestasi ektoparasit *Argulus* sp. Jurnall Ilmiah Perikanan dan Kelautan 1(2): 129–134.

KKP (BRSDM). 2018. Kiat murah aplikasi probiotik. https://kkp.go.id/brsdm/artikel/4588-kiat-murah-aplikasi-probiotik. Diakses tanggal 22 September 2021.

KKP (Kementrian Kelautan dan Perikanan). 2020. Statistik produksi perikanan. https://statistik.kkp.go.id/home.php?m=total&i=2#panel-footer. Diakses tanggal 7 Agustus 2021.

Kleinschmidt-DeMasters, B. K., R. L. DeBiasi, & K. L. Tyler. 2001. Polymerase chain reaction as a diagnostic adjunct in herpesvirus infections of the nervous system. Brain Pathology 11 : 452–464.

Kroll, R. G. 1985. The cytochrome c oxidase test for the rapid detection of psychrotrophic bacteria in milk. Journal of Applied Bacteriology 59(2) : 137–141.

Kurnia, K., N. H. Sadi, & S. Jumianto. 2016. Isolasi bakteri heterotrof di Situ Cibuntu, Jawa Barat dan karakterisasi resistensi asam dan logam. Al-Kauniyah: Jurnal Biologi 9(2) : 74–79.

Kurniasih, T., W. Widanarni, M. Mulyasari, I. Melati, Z. I. Azwar, & A. M. Lusiastuti. 2013. Isolasi, seleksi, dan identifikasi bakteri dari saluran pencernaan ikan lele sebagai kandidat probiotik. Jurnal Riset Akuakultur 8(2) : 277-286.

Lall, S. P., & A. Dumas. 2015. Nutritional requirements of cultured fish: formulating nutritionally adequate feeds. In Feed and Feeding Practices in Aquaculture : 53-109.

Langga, I. F., M. Restu, & T. Kuswinanti. 2012. Optimalisasi suhu dan lama inkubasi dalam ekstraksi DNA tanaman bitti . J Sains & Teknologi 12(3) : 265–276.

Lelana, N. E., Sutarno, & N. Etikawati. 2003. Identifikasi polimorfisme pada fragmen ND-5 DNA mitokondria sapi benggala dan madura dengan teknik PCR-RFLP. Biodiversitas 4(1) : 1–6.

Liu, Y., H. Tang, Z. Lin, & P. Xu. 2015. Mechanisms of acid tolerance in bacteria and prospects in biotechnology and bioremediation. Biotechnology Advances 33 : 1484–1492.

MacWilliams, M. P. 2016. Indole test protocol. American Society for Microbiology : 1–9.

Mayta-Apaza, A. C., I. García-Cano, K. Dabrowski, & R. Jiménez-Flores. 2021. Bacterial diversity analysis and evaluation proteins hydrolysis during the acid whey and fish waste fermentation. Microorganisms 9(1) : 1–14.

Morelli, L. 2007. In vitro assessment of probiotic bacteria: from survival to functionality. International Dairy Journal 17(11) : 1278–1283.

Moyes, R. B., J. Reynolds, & D. P. Breakwell. 2009. Differential staining of bacteria: Gram stain. Current Protocols in Microbiology 15 : 1–8.

Mulyani, Y., A. Purwanto, & I. Nurruhwati. 2011. Perbandingan beberapa metode isolasi DNA untuk deteksi dini koi herpes virus (KHV) pada ikan mas (*Cyprinus Carpio L.*). Jurnal Akuatika Indonesia 2(1) : 1-16.

National Research Council (NRC), 2011. Nutrient requirements of fish and shrimps. The National Academic Press. Washington.

NavinChandran, M., P. Iyapparaj, S. Moovendhan, R. Ramasubburayan, S. Prakash, G. Immanuel, & A. Palavesam. 2014. Influence of probiotic bacterium *Bacillus cereus* isolated from the gut of wild shrimp *Penaeus monodon* in turn as a potent growth promoter and immune enhancer in *P. monodon*. Fish and Shellfish Immunology 36(1) : 38–45.

Niyonzima, F. N., & S. S. More. 2014. Concomitant production of detergent compatible enzymes by *Bacillus flexus* XJU-1. Brazilian Journal of Microbiology 45(3) : 903–910.

Nomoto, K. 2005. Prevention of infections by probiotics. Review. Journal of Bioscience and Bioengineering 100 (6) : 583–592.

Nopitawati, T. 2010. Seleksi bakteri probiotik dari saluran pencernaan untuk meningkatkan kinerja pertumbuhan udang vaname *Litopenaeus vannamei*. Sekolah Pascasarjana Institut Pertanian Bogor. Bogor. Tesis.

Nurhidayati, S., F. Faturrahman, & M. Ghazali. 2015. Deteksi bakteri patogen yang berasosiasi dengan *Kappaphycus alvarezii* (*doty*) bergejala penyakit *ice-ice*. Jurnal Sains Teknologi & Lingkungan 1(2) : 24–30.

Nurkhasanah, S. & Widodo. 2015. The effect of different media content on protease activity *Bacillus subtilis*. Jurnal Biotropika 3(2) : 104-106.

Pangastuti, A. 2006. Review : definisi spesies prokaryota berdasarkan urutan basa gen penyandi 16S rRNA dan gen penyandi protein. Biodiversitas 7(3) : 292–296.

Petti, C. A. 2007. Detection and identification of microorganisms by gene amplification and sequencing. Clinical Infectious Diseases 44(8) : 1108–1114.

Priest, F. G., M. Goodfellow, & C. Todd. 1988. A numerical classification of the genus bacillus. Journal of General Microbiology 134(7) : 1847–1882.

Prihanto, A. A., H. D. L. Timur, A. A. Jaziri, R. Nurdiani, & K. A. Pradarameswari. 2018. Isolasi dan identifikasi bakteri endofit mangrove *Sonneratia alba* penghasil enzim gelatinase dari Pantai Sendang Biru, Malang, Jawa Timur. Indonesian Journal of Halal 1(1) : 31–42.

Rachmad, B., W. Saputri, A. S. Yandri, A. Setiawan, & Mulyono. 2017. Isolasi dan identifikasi gen resisten ciprofloxacin pada isolat *Escherichia coli* MDR ciprofloxacin dari penderita ISK di RSUDAM Provinsi Lampung. J.K. Unila 1(3) : 487–497.

Ray, A. K., K. Ghosh, & E. Ringø. 2012. Enzyme-producing bacteria isolated from fish gut: a review. Aquaculture Nutrition 18(5) : 465–492.

Reda, R. M., M. A. El-Hady, K. M. Selim, & H. M. El-Sayed. 2018. Comparative study of three predominant gut bacillus strains and a commercial *B. amyloliquefaciens* as probiotics on the performance of *Clarias gariepinus*. Fish and Shellfish Immunology 80 : 416–425.

Reiner, K. 2016. Catalase test protocol. American Society for Microbiology : 1–9.

Rizaldi, R., W. H. Setyantini, & Sudarno. 2018. Isolasi dan karakterisasi bakteri proteolitik yang berasosiasi dengan lamun *Enhalus acoroides* di Pantai Bama, Taman Nasional Baluran, Situbondo, Jawa Timur. Jurnal Ilmiah Perikanan Dan Kelautan 10(1) : 8–14.

Romero, J., C. Gloria, & P. Navarrete. 2012. Antibiotics in aquaculture – use, abuse and alternatives. Health and Environment in Aquaculture.

Saarela, M., G. Mogensen, R. Fondén, J. Mättö, & T. Mattila-Sandholm. 2000. Probiotic bacteria: safety, functional and technological properties. Journal of Biotechnology 84(3) : 197–215.

Saimin, J., Hartati, Y. Purnamasari, S. A. Mulyawati, Tien, & P. Aritrina. 2020. Microbiological and biochemical contamination analysis of refilled drinking-water in Abeli, Kendari, Southeast Sulawesi. Indonesian Biomedical Journal 12(2) : 85–188.

Sardiani, N., M. Litaay, R. G. Budji, D. Priosambodo, Syahribulan, & Z. Dwyana. 2015. Potensi tunikata *Rhopalaea* sp. sebagai sumber inokulum bakteri endosimbion penghasil antibakteri. Jurnal Alam Dan Lingkungan 6(11): 1–10.

Scheuplein, R. J., A. Mizutani, & S. Yamaguchi. 2007. Studies on the non-pathogenicity of *Chryseobacterium proteolyticum* and on the safety of the

enzyme: protein-glutaminase. Regulatory Toxicology and Pharmacology 49 : 79–89.

Seniati, R. Mulyani, & Syahruddin. 2020. Uji viabilitas bakteri *Aeromonas hydrophila* dengan metode penyimpanan beku pada Media TSB dan gliserol. Lutjanus 25(2) : 41–48.

Setyati, W. A., D. Pringgenies, N. Soenardjo, & R. Pramesti. 2021. Actinomycetes of secondary metabolite producers from mangrove sediments, Central Java, Indonesia. Veterinary World 14(10) : 2620–2624.

Singh, R., M. Kumar, A. Mittal, & P. K. Mehta. 2016 . Microbial enzymes: industrial progress in 21st century. 3 Biotech 6(174) : 1–15.

Singh, R., A. Mittal, M. Kumar, & P. K. Mehta. 2016. Microbial proteases in commercial applications. Journal of Pharmaceutical, Chemical and Biological Sciences 4(3) : 365–374.

Smith, V. J., J. H. Brown, & C. Hauton. 2003. Immunostimulation in crustaceans: does it really protect against infection?. Fish and Shellfish Immunology 15(1): 71–90.

Soeka, Y. S., & Sulistiani. 2017. Karakterisasi enzim protease dari bakteri *Stenotrophomonas* sp. Asal Gunung Bromo, Jawa Timur. Berita Biologi 16(2) : 203–211.

Sukardono, E., M. Sarma, & K. Sumantadinata. 2013. Strategi pemasaran restoran pecel lele Lela Cabang Pinangranti, Jakarta Timur. MANAJEMEN IKM: Jurnal Manajemen Pengembangan Industri Kecil Menengah 8(2) : 170–180.

Sulistyanto, W. N., & G. Trimulyono. 2019. Karakterisasi fenotip dan indeks similaritas isolat actinomycetes yang memiliki kemampuan antibakteri terhadap *Escherichia coli* dan *Staphylococcus aureus*. Biotropika: Journal of Tropical Biology 7(3) : 112–120.

Suyanto, R. 2007. Budidaya ikan lele edisi revisi. Penebar Swadaya. Jakarta.

Trisnawati, Y., Suminto, & A. Sudaryono. 2014. Pengaruh kombinasi pakan buatan dan cacing tanah (*Lumbricus rubellus*) terhadap efisiensi pemanfaatan pakan, pertumbuhan dan kelulushidupan lele dumbo (*Clarias gariepinus*). Journal of Aquaculture Management and Technology 3(2) : 86–93.

Triyaningsih, Sarjito, & S. B. Prayitno. 2014. Patogenisitas *Aeromonas hydrophila* yang diisolasi dari lele dumbo (*Clarias gariepinus*) yang berasal dari Boyolali. Journal of Aquaculture Management and Technology 3(2) : 11–17.

Ulfa, A., Aloysius, A. K. F. Situmorang, Harmileni, & E. Fachrial. 2019. Isolasi bakteri asam laktat dari makanan tradisional khas Batak “naniura” dan uji sensitifitas

terhadap beberapa antibiotik. Seminar Nasional Teknologi Komputer & Sains (SAINTEKS) : 162–165.

Ulva, A., D. Iqbal, Nuraini, Mesran, U. S. Dian, & Yuhandri. 2018. Sistem pendukung keputusan pemilihan bibit lele terbaik menggunakan metode MOORA (*multi-objective optimization on the basis of ratio analysis*) dan WASPAS (*weight aggregated sum product assesment*). Seminar Nasional Sains & Teknologi Informasi (SENSASI) : 177–185.

Verschuere, L., G. Rombaut, P. Sorgeloos, & W. Verstraete. 2000. Probiotic bacteria as biological control agents in aquaculture. Microbiology and Molecular Biology Reviews 64(4) : 655–671.

Veterinary Bacteriology. 2018. Veterinary bacteriology: information about important bacteria. http://www.vetbact.org/displayextinfo/2. Diaskes tanggal 21 Juni 2022.

Vidal, J. M. A., M. N. da C. Pessôa, F. L. dos Santos, P. de P. Mendes, & E. S. Mendes. 2018. Probiotic potential of *Bacillus cereus* against *Vibrio* spp. in post-larvae shrimps. Revista Caatinga 31(2) : 495–503.

Vos, P.D., G.N. Garrity, D. Jones, N.R. Krieg, W. Ludwig, F.A. Rainey, K.H. Schleifer, & W.B. Whitman. 2009. Bergey's manual of determinative bacteriology. Second edition. Vol. 3 the firmicutes. Springer. New York.

Wang, Y. B., J. R. Li, & J. Lin. 2008. Probiotics in aquaculture: challenges and outlook. Aquaculture 281 : 1–4.

Yang, J. H., H. X. Liu, G. M. Zhu, Y. L. Pan, L. P. Xu, & J. H. Guo. 2008. Diversity analysis of antagonists from rice-associated bacteria and their application in biocontrol of rice diseases. Journal of Applied Microbiology 104 : 91–104.

Wijayanti, D. P., A. Sabdono, D. Dirgantara, P. A. Widyananto, M. T. Sibero, R. Bhagooli, & M. Hidaka. 2020. Antibacterial activity of acroporid bacterial symbionts against white patch disease in Karimunjawa Archipelago, Indonesia. Egyptian Journal of Aquatic Research 46(2) : 187–193.

Wikandari, P. R., S. Suparmo, Y. Marsono, & E. S. Rahayu. 2012. Karakterisasi bakteri asam laktat proteolitik pada bekasam. Jurnal Natur Indonesia 14(1) : 120 -125.

Yusuf, Z. K. 2010. Polymerase chain reaction (PCR). Saintek 5(6) : 1–6.