

DAFTAR PUSTAKA

- Abdulla, A.A., Abed, T.A., dan Saeed, A.M. 2014. Adhesion, Autoaggregation, and Hydrophobicity of Six *Lactobacillus* Strains. *British Microbiology Research Journal*. 4 (4): 381-371, 2014.
- Adams, M. R. dan M. O. Moss. 2000. Food Microbiology. 2nd Ed. Royal Society Of Chemistry, Athenaeum Press Ltd, University Of Surrey, Guildford, UK.
- Adila, R. Nurmiati, dan Agustien, A. 2013. Uji Antimikroba *Curcuma Spp.* Terhadap Pertumbuhan *Candida Albican*, *Staphylococcus Aureus*, Dan *Escherichia Coli*. *Journal Of Biological Chemistry*. 2 (1): 1-7.
- Afsharmanesh. M, dan Sadaghi. B. 2014. Effects Of Dietary Alternatives (Probiotic, Green Tea Powder And Kombucha Tea) As Antimicrobial Growth Promoters On Growth, Ileal Nutrient Digestibility, Blood Parameters On Growth, Ileal Nutrient Digestibility, Blood Parameters, And Imune Response Of Broiler Chickens. *Comparative Clinical Pathology* 23 (3) : 717-724.
- Aggad, H, dan Guemour, D. 2014 H. Aggad, D. Guemourhoney Antibacterial Activity Med. Aromat. Plants, 3 (2014).
- Agromedia, R. Petunjuk Praktis Bertanam Jahe. 2007. Cetakan 1. Jakarta : Agromedia Pustaka.
- Ahumada, M.C., Bru, E., Colloca, M.E., Lopez, M.E., Macias, M.E. 2003. Evalution and Comparison of *Lactobacili* Characteristic in the Mouths of Patents With or Without Cavities. *Journal of Oral science*. Vol. 45 No. 1 : 1-9.
- Ajizah, A., Thihana., Mirhanuddin. Potensi Ekstrak Kayu Ulin (*Euksideroxylon Zwageri*) Dalam Menghambat Pertumbuhan Bakteri *Staphylococcus Aureus* Secara In Vitro. 2007. *Bioscientiae*. 4 (1). 37-42.
- Alipin, K, R. Safitri dan R. Kartasudjana. 2016. Suplementasi probiotik dan temulawak pada ayam pedaging terhadap populasi *Salmonella* sp dan kolesterol darah. *Sumedang. Jurnal Veteriner*. 17(4):582-586.
- Álvarez-Fernández E, Cancelo A, Díaz-Vega C, Capita R, Alonso-Calleja C. 2013. Antimicrobial Resistance In *E. Coli* Isolates From Conventionally And Organically Reared Poultry: A Comparison Of Agar Disc Diffusion And Sensi Test Gram-Negative Methods. *Food Control*. 30:227-234.

Amrie AGA, Ivan, Anam S, Ramadhanil. 2014. Uji Efektifitas Ekstrak Daun Dan Akar Harrisonia Perforata Merr. Terhadap Pertumbuhan Bakteri Vibrio Cholerae. Online Jurnal Of Natural Science. 3(3):331-340.

Anonim. 2010. Bakteri Asam Laktat. [http://www.wikipedia.bakteriasamlaktat/wikipediabahasa Indonesia,ensiklopediabebas.html](http://www.wikipedia.bakteriasamlaktat/wikipediabahasa%20Indonesia,ensiklopediabebas.html). Diakses pada 24 Maret 2019.

Anthony T. 1997. Food Poisoning. Departement Of Biochemistry Colorado Estateuniversity. New York.

AOAC. 2005. Method of Analysis. Washingdton: Assosiation of Official Analytical Chemistry. USA: AOAC International. Hal 979.12; 973.41; 33.3.06Arslan, C. Dan M. Saattci. 2004. Effect Of Probiotics Admininstration Either As Feed Additive Or By Drinking Water On Performance And Blood Parameters Of Japanesse Quail. Arch. Geflugelk. 68 : 160—163.

Aristides, L. G. A., Paiao, F. G., Murate, L. S., Oba, A., dan Shimokomak, M. (2012). The effects of biotic additives on growth performance and meat qualities in broiler chickens. International Journal of Poultry Science, 11(9), 599–604.

Ashayerizadeh, A., Dabiri, N., Mirzadeh K. dan Ghorbani, M., 2011. Effect of dietary supplementation of probiotic and prebiotic on growth indices and serum biochemical parameters of broiler chickens. J. Cell Anim. Biol. 5, 152-156.

Astrini, D.,Wibowo, M.S., Nugrahani, I. 2014. Aktivitas Antibakteri Madu Terhadap Bakteri Gram Negatif Dan Gram Positif serta Potensinya Dibandingkan Terhadap Antibiotik Kloramfenikol, Oksitetrasiklin dan Gentamisin. *Acta Pharmaceutica Indonesia*, Vol. XXXIX, No. 3 dan 4, 2014 – 75.

Awad, W., Ghareeb, K., dan Bohm, J. 2008. Intestinal Structure And Function Of Broiler Chickens On Diets Supplemented With A Symbiotic Containing *Enterococcus Faecium* And Oligosaccharides. *International Journal Of Molecular Sciences*. 9: 2205–2216.

Badan Pusat Statistik. 2014. <https://www.bps.go.id/statictable/2014/09/08/950/rata-rata-konsumsi-per-kapita-seminggu-beberapa-macam-bahan-makanan-penting-2007-2017.html> Diakses Tanggal 07 April 2019.

Badan Standarisasi Nasional Indonesia. 2004. Madu. SNI 01-3545-2004. Dewan Standarisasi Nasional, Jakarta.

- Bahri S, Masbulan E, Kusumaningsih A. 2005. Proses Praproduksi Sebagai Faktor Penting Dalam Menghasilkan Produk Ternak Yang Aman Untuk Manusia. *J. Litbang Pertanian*, 24(1).
- Bai, S.P., Wu, A.M., Ding, X.M., 2013. Effects of probiotic-supplemented diets on growth performance and intestinal immune characteristics of broiler chickens. *Poultry Science*. 92:663-670.
- Barbosa, T. M., C. R. Serra., R. M. L. Ragione., M. J. Woodward., dan A. O. Henriques. 2004. Screening for Bacillus Isolates in the Broiler Gastrointestinal Tract. *Journal American Society for Microbiology*. 71(2): 968 – 978.
- Bangroo A K, Khatri R, Chauchan S. (2005). Honey Dressing In Pediatric Burns. *J. Indian Assoc Pediatr Surg*: 10: 172-5
- Bauer, A.W., Kirby, M.W., Sherris, J.C., dan Turck, M. 1966. Antibiotic Susceptibility Testing by a Standardized Single Disk Method. *American Journal Clinical Pathology*. 45 (4): 493-496.
- Bermawie, N dan S. Purwiyanti. 2011. Botani, Sistematika dan Keragaman Kultivar Jahe. Status Teknologi Hasil Penelitian Jahe. ISBN 978-979-548-031-0. Balai Penelitian Tanaman Obat dan Aromatik, Bogor.
- Biloni, A., Quintana, C., Menconi, A., Kallapura, G., Latorre, J., Pixley, C., Layton, S., Dalmagro, M., Hernandez-Velasco, X. & Wolfenden, A. 2013. Evaluation Of Effects Of Earlybird Associated With Floramax-B11 On Salmonella Enteritidis, Intestinal Morphology, And Performance Of Broiler Chickens. *Poultry Science*. 92, 2337-2346.
- Bittmann, S. Et Al., 2010. Does Honey Have A Role In Paediatric Wound Management? 19(15).
- Bisping, W., Amtsberg, G.A. 1988. Color Atlas for The Diagnosis of Bacterial Pathogen in Animals. Paul Parey Scientific Publishers. Berlin and Hamburg.: 160-168.
- Bogaard, Van De. And E.E. Stobberingh. 1999. Antibiotic Usage In Animals: Impact On Bacterial Resistance And Public Health. *Drugs*. 58(4):589-607.
- Bogdanov. S, Haldimann. M, Luginbühl. W, Gallmann, P. 2007. Minerals in honey: environmental, geographical and botanical aspects *Bee World*, 46 (4) (2007), pp. 269-275

- Bogdanov, S., 2009. Physical properties of honey. In: Book of Honey, Chapter 4. Bee Product Science, www.bee-hexagon.net. Diakses tanggal 28 Maret 2019.
- Brady, Ms. Dan Katz.S.E. 1992. Analisis Of Antibiotik Drug Residu In Food Product Of Animals Origin, Edited By V.K. Agarwal, 5-7. Plenum Press New York.
- Brudzynski, K., Abubaker, K., St-Martin, L. dan Castle, A., 2011. Reexamining The Role Of Hydrogen Peroxide In Bacteriostatic And Bactericidal Activities Of Honey. Buchanan, C. E. 1979. Altered Membrane Proteins In A Minicell Producing Mutant Of *Bacillus Subtilis*. *Journal Of Bacteriology*. 139, 305-307.
- Burt, S. 2004. Essential oils: Their antibacterial properties and potential applications in food-a review. *International Journal of Food Microbiology* 94, 223-253.
- Buxton A dan Fraser G. 1977. *Animal Microbiology*. Vol. 1. Blackwell Scientific Publications, Oxford, London, Edinburgh. Melbourne. pp. 103-115.
- Carter, G.R. dan J.R. Cole. 1990. *Diagnostic Procedures in Veterinary Bacteriology and Micology*. 5th Ed. Academic Press. Inc, San Diego California, pp. 23-24.
- Carventes. 2007. Antibiotic Feed Additives: Politics And Science, Poultry And Egg Association Poultry Production And Health Seminar Held On September 19-20, 2007 In Memphis, Tennessee, USA. Halaman 1-3, 11-13.
- Chakraborty, A., Bhowal, J. 2015. Isolation, Identification and Analysis of Probiotic Properties of *Lactobacillus* Spp. from Selected Regional Dairy Product. *Int. J. Curr. Microbiol. Appl. Sci.*, ISSN: 2319- 7706 Volume 4 Number 6 (2015) pp. 621- 628.
- Cavallini, D. C. U., Bedani, R., Bomdespacho, L. Q., Vendramini, R. C., dan Rossi, E. A. (2009). Effects of probiotic bacteria, isoflavones and simvastatin on lipid profile and atherosclerosis in cholesterol-fed rabbits: a randomized double-blind study. *Lipids in Health and Disease*, 8(1), 1–8.
- Collins, M.D and G.R Gibson. 1999. Probiotics, Prebiotics, And Synbiotics : Approaches For Modulating The Microbial Ecology Of The Gut. *Am. J. Clin. Nutr.* 69:1052S-1057S.
- Corrier, D. E., A. Hinton, Jr., R. L. Ziprin, R. C. Beier, dan J. R. DeLoach, 1990a. Effect of dietary lactose on cecal pH, bacteriostatic volatile fatty acids, and

Salmonella typhimurium colonization of broiler chickens. Avian Dis. 34: 617–625.

Cowan, M.M. 1999. Plant Products As Antimicrobial Agents. Clinical Microbiology Reviews. 12: 564 – 582.

Cummings, J.H., Christie, S. and Cole, T.J. 2001. A study of fructo oligosaccharides in the prevention of travellers' diarrhea. Alimentary Pharmacology Therapeutics. 15:1139- 1145.

Dalloul, R., Lillehoj, H., Shellem, T. and Doerr, J. 2003. Enhanced Mucosal Immunity Against Eimeria Acervulina In Broilers Fed A Lactobacillus-Based Probiotic. Poultry Science. 82, 62-66.

Dahl, T.A., W.R. Midden Dan P.E. Hartman. 1989. Comparison Of Killing Of Gramnegatif And Gram-Positif Bacteria By Pure Singlet Oxygen. J. Bacteriol. 171 :2188-2194.

Dean FA. 1990. Comparison of receptors of 987p pili of enterotoxigenic E. coli in the small intestines of neonatal and older pigs. Infection and Immunity 58: 4030- 4035.

Demir, E., S. Sarica, M.A. Ozcan and M Swemez. 2003. The use of natural feedadditives as alternatives for an antibiotic growth promoter in broiler diets. Br.Poult. Sci. 44:44-45.

Deniz, G., A. Orman, F. Cetinkaya, H. Gencoglu, Y. Meral, And I. I. Turkmen. 2011. Effects Of Probiotic (Bacillus Subtilis DSM 17299) Supplementation On The Caecal Microflora And Performance In Broiler Chickens. Revue Méd. Vét. 162:538–545.

Dinas Pertanian Dan Peternakan. 2016. Laporan Tahunan 2006 Distannak Kabupaten Tangerang.

Departemen Kesehatan (Depkes). 2016. [Http://Www.Depkes.Go.Id/Article/Print/16060800002/Mari-Bersamaatasi-Resistensi-Antimikroba-Amr-.Html](http://www.depkes.go.id/article/print/16060800002/mari-bersamaatasi-resistensi-antimikroba-amr-.html). Diakses Pada Tanggal 10 Maret 2019.

Deasywaty. 2011. Aktivitas Antimikroba Dan Identifikasi Komponen Aktif Rimpang Temulawak (*Curcuma Xanthorriza Roxb*). Tesis. Fakultas Matematika Dan Ilmu Pengetahuan Alam. Universitas Indonesia. Depok.

Dewi, A.A.S. dan N. Riti. 2002. Survei Residu Antibiotika Pada Produk Asal Hewan Di Kabupaten Badung Tahun 2002. Balai Penyelidikan Dan Pengujian Veteriner Regional VI Denpasar.

- Diastuti, H., Syah, Y.M., Juliawaty, L.D., and Singgih, M., 2014. Antibacterial and NMR analysis of *Curcuma xanthorrhiza* Extract and Fractions. *Journal Mathematical and Fundamental Sciences* 46 (3), 224-234.
- Dubreuil JD, Fairbrither JM, Lallier R and Lariviere S. 1991. Production and purification of heat stable enterotoxin-b from a porcine E. coli strain. *Infection and Immunity* 59: 198-203.
- Edens, F. W., C. R. Parkhurst, and I. A. Casas, 1991. Lactobacillus reuteri and whey reduce Salmonella colonization in the ceca of turkey poults. *Poultry Sci.* 70(Suppl.1): 158. (Abstr.).
- Elgayyar, M., F.A. Draughon, D.A. Golden dan J.R. Mount. 2001. Antimicrobial Activity of Essential Oils From Plants against Selected Pathogenic and Saprophytic Microorganisms. *J. of Food Protection.* 64(7): 1019-1024.
- El-Naggar Moustofa, Y.M. 2004. Comparative study of probiotic cultures to control the growth of Escherichia coli O157:H7 and Salmonella typhimurium. *Biotechnology*, 3 (2): 173-180, 2004.
- Fissy, AON. 2013. Uji Aktivitas Sediaan Gel Anti Jerawat Ekstrak Etanol Rimpang Jahe Merah (*Zingiber Officinale Rosc. Var. Rubrum*) Terhadap Propionibacterium Acnes Dan Staphylococcus Epidermidis. *Skripsi.* Fakultas Kedokteran: Pontianak.
- Food And Agriculture Organization Of The United Nations (FAO). 2016. *Probiotics In Animal Nutrition – Production, Impact And Regulation* By Yadav S. Bajagai, Athol V. Klieve, Peter J. Dart And Wayne L. Bryden. Editor Harinder P.S. Makkar. FAO Animal Production And Health Paper No. 179, Rome, Pp. 5, 15-31.
- Food And Agricultural Organization Of The United Nations And World Health Organization. 2001. Health And Nutritional Properties Of Probiotics In Food Including Powder Milk With Live Lactic Acid Bacteria. Ftp://Ftp.Fao.Org/Es/Esn/Food/Probio_Report_En.Pdf Diakses Tanggal 20 Maret 2019.
- FAO/WHO. 2002. Guidelines For The Evaluation Of Probiotics In Food. Food And Agriculture Organization Of The United Nations/World. Diakses tanggal 20 Maret 2019.
- FAO. 2007. FAO Technical Meeting On Prebiotics. ISBN 92-5-105513-0.
- Flint, H.J., Scott, K.P., Louis, P., and Duncan, S.H. (2012). The role of the gut microbiota in nutrition and health. *Nat Rev Gastroenterol Hepatol.* 9, 577–589.

Fuller, R. 1989. Probiotic in Man and Animals. *Journal of Applied Bacteriology*. 66: 365-378.

Gagg`Ia, F., P. Mattarelli, dan B. Biavati. 2010. Probiotics And Prebiotics In Animal Feeding For Safe Food Production. *Int. J. Food Microbiol.* 141:S15-S28.

Gandhi, D.N. 2006. *Food and Industrial Microbiology: Microbiology of Fermented Dairy Products*. Dairy Microbiology Division. National Dairy Research Institute.

Gao, Z., Wu, H., Shi, L., Zhang, X., Sheng, R., Yin, F., dan Gooneratne, R. 2017. Study of Bacillus subtilis on growth performance, nutrition metabolism and intestinal microflora of 1 to 42 d broiler chickens. *Animal Nutrition*, 3(2), 109–113. <https://doi.org/10.1016/j.aninu.2017.02.002>. Diakses tanggal 15 Maret 2019.

Ghalyanchi LA, Kiaei SMM, Modirsanei M, Mansour B, Estabragh AS. 2008. Comparison of Chemical and Biological Growth Promoter with Two Herbal Natural Feed Additives on Broiler Chick Performance. *J. Anim. Vet. Adv.* 5: 570-574.

Gibson, G.R. dan M.B. Roberfroid. 1995. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *J. Nutr.* 125:1401-1412.

Gibson, G.R dan Fuller, R 2000, 'Aspects of in vitro and in vivo research approaches directed towards identifying probiotics and prebiotics for human use'. *Journal of Nutrition*. 130, 391-395.

Gibson, G. R., Scott, K.P., Rastall, R.A., Tuohy, K.M., Hotchkiss, A., Ferrandon, A.D., Gareau, M., Murphy, E.F., Saulnier, D., Loh, G., Macfarlane, S., Delzenne, N., Ringel, Y., Kozianowski, G., Dickmann, R., Wijnkoop, I. L., Walker, C., and Buddington, R. 2010. Dietary prebiotics: current status and new definition. *The Food Science and Technology Bulletin: Functional Foods*, 7, 1–19.

Gmeiner, M., Kneifel, W., Kulbe, K. D., Wouters, R., De Boever, P., Nollet, L., & Verstraete, W. (2000). Influence of a synbiotic mixture consisting of Lactobacillus acidophilus 74-2 and a fructo-oligosaccharide preparation on the microbial ecology sustained in a simulation of the human intestinal microbial ecosystem (SHIME reactor). *Applied Microbiology and Biotechnology*. 53(2), 219-223.

- Green, D.H, Phil, R.W, Anthony. 1999. Applied and Environmental Mikrobiologi : characterization of Two Bacillus Probiotics. Vol. 65. No.9. American Society for Mikrobiologi. Amerika.
- Gulfraz, M., Ifftikhar, F., Asif, S., Raja, G.K., Asad, M.J., Abbasi, K. dan Zeenat, A. 2010. Quality assement and antimi88crobial activity of various honey types of Pakistan. African Journal of Biotechnology 9(41): 6902-6906
- Hacek, M.D, Dressel C.D, and Peterson R.L. 1999. Highly Reproducible Bactericidal Activity Test Results by Using a Modified National Committee for Clinical Laboratory Standards Broth Macrodilution Technique. *J Clin Microbiol.* 37(6): 1881–1884.
- Hadi, U. 2008. Antibiotic Usage And Antimicrobial Resistance In Indonesia. Airlangga University Press. Surabaya.
- Haghighi, H. R., Abdul-Careem, M. F., Dara, R. A., Chambers, J. R. dan Sharif, S. 2008. Cytokine Gene Expression In Chicken Cecal Tonsils Following Treatment With Probiotics And Salmonella Infection. *Veterinary Microbiology.* 126, 225-233.
- Harmono dan Andoko. 2005. Budi daya dan peluang bisnis jahe. Jakarta : Agromedia Pustaka.
- Handayani, N. M., A.A. Dewi, 2003. Survei Cemarkan Mikroba Dan Residu Antibiotika Dan Sulfa Pada Produk Asal Hewan Di Provinsi Nusa Tenggara Barat Dan Nusa Tenggara Timur Tahun 2003. Jurnal Balai Penyidikan Dan Pengujian Veteriner Regional VI. Denpasar.
- Handrianto, P. 2016. Uji Antibakteri Ekstrak Jahe Merah *Zingiber officinale* var. *Rubrum* terhadap *Staphylococcus aureus* dan *Escherichia coli*. *Journal of Research and Technologies.* 2 (1): 1-4.
- Hariana, Arief. 2006. Tumbuhan Obat Dan Khasiatnya. Jakarta: Penebar Swadaya.
- Hashemi SR, Zulkifli I, Hair-Bejo M, Farida A, Somchit MN. 2008. Acute toxicity study and phytochemical screening of selected herbal aqueous extract in broiler chickens. *Int J Pharmacol.* 4:352-360.
- Hassan, M. R., dan K. S. Ryu. 2012. Naturally Derived Probiotic Supplementation Effects On Physiological Properties And Manure Gas Emission Of Broiler Chickens. *J. Agric. Life Sci.* 46:119–127.
- Hernani dan Hayani, E. 2001. Identification of Chemical Components on Red Ginger (*Zingiber officinale* var. *Rubrum*) by GC-MS. Proc. International

Seminar on Natural Products Chemistry and Utilization of Natural Resources. 501-505.

- Hernani dan Winarti, C. 2013. Kandungan Bahan Aktif Jahe dan Pemanfaatannya dalam Bidang Kesehatan. Bogor : Balai Besar Penelitian Dan Pengembangan Pascapanen Pertanian.
- Herawati. 2006. Pengaruh Penambahan Fitobiotik Jahe Merah (*Zingiber Officinale* Rosc.) Terhadap Produksi dan Profil Darah Ayam Broiler. Jurnal Protein Vol.14No. 2.
- Hertiani, T., S.I. Palupi, Sanliferianti dan D.H. Nurwindasari. 2003. In Vitro Test On Antimicrobial Potency Against Staphylococcus Aureus, Escherchia Coli, Shigella Dysntriae And Candida Albicans Of Some Herbs Traditionally Used Cure Infection Disesases. Pharmacon 4(2): 89-95.
- Hidayathulla, S., C.K. Keshava Dan K.R. Chandrashekar. 2011. Phytochemical Evaluation And Antibacterial Activity Of Pterospermum Diversifolium Blune. Int.J.Of Pharmacy And Pharmaceutical Sciences 3(2): 165-167.
- Hinton, A., Jr., D. E. Corrier, G. E. Spates, J. O. Norman, R. L. Ziprin, R. C. Beier, dan J. R. DeLoach, 1990. Biological control of Salmonella typhimurium in young chickens. Avian Dis. 34:626–673.
- Huyghebaert, G., Ducatelle, R., Van Immerseel, F. 2011. An update on alternatives to antimicrobial growth promoters for broilers. *Vet. J.* 187, 182–188.
- Hwang JK, Shim JS, Baek NI, Pyun YR. 2000. Xanthorrhizol: A Potential Antibacterial Agen From Curcuma Xanthorrhiza Streptococcus Mutans. *Planta Medica*, 66(2): 196-197.
- Ivanova, I. P. Kabadjova, A. Pantev, S. Danova and X.Dousset. 2000. Detection, Purification and Partial Characterization of a Novel Bcateriocins substance produced by Lactococcus lactis subp. Lactis B14 isolated from Boza Bulgarian traditional cereal beverage. *Biocatalyst*. 41(6) : 47-53.
- Jagadesswari, S., Vidya, P. 2010. Isolation And Characterization Of Bacteriocin Producing Lactobacillus Sp. From Traditional Fermented Food. *Electronic Journal Of Environmental Agricultural And Food Chemistry* 9(3):575-581.
- Jamroz D, Orda I, Kamel C, Wiliczkieicz A, Wartelecki T, Skorupinska I. 2003. The influence of phytogenic extracts Italian journal of animal science 97 on performance, nutrient digestibility, carcass characteristics, and gut microbial status in broiler chickens. *J Anim Feed Sci.* 12:583–596.

- Jamroz D, Wertelecki T, Houszka M, Kamel C. 2006. Influence of diet type on the inclusion of plant origin active substances on morphological and histochemical characteristics of the stomach and jejunum walls in chicken. *J Anim Physiol Anim Nutr.* 90: 255-268.
- Jawetz, Melnick dan Adelberg, 1996, Mikrobiologi Kedokteran, edisi 20, EGC, Jakarta.
- Jayaraman, S., Thangavel, G., Kurian, H., Mani, R., Mukkalil, R. dan Chirakkal, H. 2013. *Bacillus Subtilis* PB6 Improves Intestinal Health Of Broiler Chickens 179 Challenged With *Clostridium Perfringens*-Induced Necrotic Enteritis. *Poultry Science.* 92, 370-374.
- Jin, L.Z., Ho, Y.W., Abdullah, N., Kudo, H., dan Jalaludin, S. 1997. Studies on the Intestinal Microflora of Chicken under Tropical Condition. *Asian-Australasian Journal of Animal Sciences.* 10 (5): 495-504.
- Jones, F. 1999. "*Lactobacillus acidophilus*". Department of Bacteriology. University of Wisconsin-Madison.
- Jukes, TH. 1977. The History Of The "Antibiotic Growth Effect." Federation Proceedings 37, 2514-2518. Jukes TH. 1985. Some Historical Notes On Chlortetracycline. Reviews Of Infectious Diseases 7, 702-707.
- Jukes, TH. 1985. Some Historical Notes On Chlortetracycline. Reviews Of Infectious Diseases 7, 702-707.
- Kalavathy, R., Abdullah, N., Jalaludin, S., Dan Ho, Y.W. 2003. Effects Of *Lactobacillus* Cultures On Growth Performance, Abdominal Fat Deposition, Serum Lipid And Weight Of Organs Of Broiler Chickens. *British Poultry Sciences.* 44 (1): 137-144.
- Karimah U. 2010. Isolasi Oligosakarida Madu Lokal Dan Analisis Aktivitas Prebiotiknya. [Skripsi]. Bogor. Fakultas Matematika Dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor.
- Karimah U, Anggowo YN, Falah S, Suryani. 2011. Isolasi Oligosakarida Madu Lokal Dan Analisis Aktivitas Prebiotiknya. *J Gizi Pangan.* 6:217–224.
- Kementrian Kehutanan. 2010. Rencana Strategis 2010-2014. Jakarta : Menteri Kehutanan Republik Indonesia.
- Kennedy, David M. 2007. An Economic Analysis Of The Human Health Impacts Oantibiotic Use In Food Animal Production And The Demand For Antibiotic Free-Meat. Dissertation. University Of California.

- Ketaren S. 1988. Minyak Atsiri. Jilid I. Jakarta: Direktorat Jenderal Pendidikan Tinggi Departemen Pendidikan Dan Kebudayaan.
- Khalil, M.I., Moniruzzaman, M., Boukraa, L. Benhanifia, M., Islam, M.N., Sulaiman, S.A. dan Gan, S.H. (2012). Physicochemical and antioxidant properties of algerian honey. *Molecules* 17(9): 11199–11215.
- Khan, F.R. , Z.U. Abadin, N. Rauf. 2007. Honey : nutritional and medicinal value. *Int. J. Clin. Pract.*, 61 (2007), pp. 1705-1707.
- Kompiang, I.P. 2009. Pemanfaatan Mikroorganisme Sebagai Probiotik Untuk Meningkatkan Ternak Unggas Di Indonesia. Pusat Penelitian Dan Pengembangan Peternakan. Bogor.
- Krisdianto. 2013. Studi Kandungan Residu Oksitetrasiklin Pada Ayam Ras Broiler Yang Dijual Di Pasar Tradisional Bunder Sragen. *SKRIPSI. Universitas Muhammadiyah. Surakarta*.
- Kusuma, S.B. 2018. Pemanfaatan Kombinasi Jamu Lengkuas, Jahe, Temulawak Dan Madu Terhadap Produktivitas Ayam Broiler. *SKRIPSI. Institut Pertanian Bogor. Bogor*.
- Kwakman, P. H. S. And Zaat, S. A. J., 2012, Antibacterial Components of Honey, *IUBMB Life*, 64(1): 48–55.
- Lambert R. J. W., Skandamis P. N., Coote P. J., Nychas G. J. E. (2001). A Study Of The Minimum Inhibitory Concentration And Mode Of Action Of Oregano Essential Oil, Thymol, And Carvacrol. *J. Appl. Microbiol.* 91 453–462.
- Lawless, H, dan Heymann, H. 2010. Sensory Evaluation of Food Principles and Practices Second Edition. Springer, New York
- Leary, J.V. dan Chun, W. 1998. *Bacillus*. Laboratory Guide for Identification of Plant Pathogenic Bacteria 2nd edition. The American Phytopathology Society. St. Paul Minnesota.
- Lee, K., H. S. Lillehoj, dan G. R. Siragusa. 2010. Direct-Fed Microbials And Their Impact On The Intestinal Microflora And Immune System Of Chickens. *J. Poult. Sci.* 47:106–114.
- Li, S., Yuan, W., Wang., P., Yang, P., Aggarwal, B. B., 2011. Chemical composition and product quality control of turmeric (*C. longa* L.). *Pharm. crops*. Vol. 2. Page 28-54

Lingga, ME Dan Rustama, MM. 2005. Uji Aktivitas Antibakteri Dari Ekstrak Air Dan Etanol Bawang Putih (*Allium Sativum* L.) Terhadap Bakteri Gram Negatif Dan Gram Positif Yang Diisolasi Dari Udang Dogol (*Metapenaeus Monoceros*), Udang Lobster (*Panulirus* Sp) Dan Udang Rebon (*Mysis* Dan *Acetes*). *Jurnal Biotika*. 5 (2).

Lopez J. 2000. *Probiotic In Animal Nutrition. Asian-Australian. Journal Of Animal Science*. Special Issue 13

Ma, Y.L., Guo, T., Xu, Z.R., You, P., Dan Ma, J.F. 2006. Effect Of *Lactobacillus* Isolates On The Adhesion Of Pathogens To Chicken Intestinal Mucus In Vitro. *Journal Compilation Applied Microbiology*. 42: 369-374.

Macfarlane, G., Steed, H., & Macfarlane, S. 2007. Bacterial metabolism and health-related effects of galactooligosaccharides and other prebiotics. *Journal of Applied Microbiology*, 104(2), 305–344.

Madan, J., dan Singh, R., 2010, Formulation And Evaluation Of Aloe vera Topical Gels, *Int.J.Ph.Sci.*, 2 (2), 551-555.

Madigan M, Martinko J. 2005. *Brock Biology of Microorganisms* (edisi ke-11th). Prentice Hall. ISBN 0-13-144329-1.

Mahajan, P., J. Sahoo, And P. C. Panda. 2000. Effect Of Probiotic (Lacto-Sacc) Feeding And Seasons On The Different Characteristics Of Poultry Meat. *Indian J. Poult. Sci.* 35:297–301.

Mahon BP, Lomelino CL, Salguero AL, Driscoll JM, Pinard MA, McKenna R. 2015. Observed surface lysine acetylation of human carbonic anhydrase II expressed in *Escherichia coli*. *Protein Sci.* 2015;24:1800–1807.

Manin F., Ella Hendalia, Yatno, dan I. Putu KOMPIANG. 2003. Potensi Saluran Pencernaan Itik Lokal Kerinci Sebagai Sumber Probiotik dan Implikasinya Terhadap Produktivitas Ternak dan Penanggulangan kasus Salmonellosis. Laporan Penelitian Hibah Bersaing X Tahun Kedua. Fakultas Peternakan Universitas Jambi.

Manin, F., Ella Hendalia, A.Aziz, 2007. Isolasi dan Produksi Isolat Bakteri Asam Laktat dan *Bacillus* sp dari Saluran Pencernaan Ayam Buras Asal Lahan Gambut Sebagai Sumber Probiotik. Laporan Penelitian Fundamental Tahun I Fakultas Peternakan Universitas Jambi.

Manin, F., Ella Hendalia, Yusrizal. 2007. Penggunaan Berbagai Bakteri *Bacillus* Dan Bakteri Asam Laktat Sebagai Sumber Probiotik Dalam Air Minum Terhadap Performans Ayam Broiler. Penelitian Hibah Bersaing 2009. Fakultas Peternakan Universitas Jambi.

- Manin, F. 2010. Potensi *Lactobacillus acidophilus* dan *Lactobacillus fermentum* dari Saluran Pencernaan Ayam Buras Asal Lahan Gambut sebagai Sumber Probiotik. *Jurnal Ilmiah Ilmu-Ilmu Peternakan*. Vol. 8 (5):221-228.
- Maya F. Lintang Ratri Daru. 2018. Identifikasi Residu Antibiotik Pada Daging Ayam Broiler Di Beberapa Pasar Wilayah Kota Yogyakarta Dengan Metode Uji Tapis (*Screening Test*). SKRIPSI. Fakultas Kedokteran Hewan. Universitas Gadjah Mada. Yogyakarta.
- McNaught, C.E. dan MacFie. 2000. Probiotics in Clinical Practice: a Critical Review of the Evidence. *Nutr. Research* 21 : 343-353.
- Molan, P. C.1992. The Antibacterial Activity Of Honey 1: The Nature Of The Antibacterial Activity, *Bee World*, 73, 5–28.
- Molan, P.C. 1999. The role of honey in the management of wounds. *Journal of Wound Care*. 8: 423-426.
- Molan, P.C. 2000. Establishing honey as a recognized medicine. *The Journal of the American Apitherapy Society*. 7: 7-9.
- Molan, P.C. 2006. Using Honey in Wound Care. *International Journal of Clinical Aromatherapy France*. 3(3): 21-24.
- Molan, A.L., Flanagan, J., Wei, W., dan Moughan, P.J. 2009. Selenium Containing Green Tea has Higher Antioxidant and Prebiotic Activities than Regular Green Tea. *Food Chemistry*. 114: 820–835.
- Mookiah. S, Sieo. CC, Rammasamy. K, Abdullah. N, Ho. YW. 2014. Effects Of Dietary Prebiotics, Probiotic And Symbiotics On Performance, Caecal Bacterial Populations And Caecal Fermentation Concentrations Of Broiler Chickens. *Journal Of The Science Of Food And Agriculture* 94(2) : 341348.
- Moore, P. R., A. Evenson, T. D. Luckey, E. McCoy, E. A. Elvehjem, dan E. B. Hart. 1946. Use Of Sulphasuccidine, Streptothricin And Streptomycin In Nutrition Studies With The Chick. *J. Biol. Chem*. 165:437–441.
- Mountzouris, K. C., P. Tsitsrikos, I. Palamidi, A. Arvaniti, M. Mohnl, G. Schatzmayr, dan K. Fegeros. 2010. Effects Of Probiotic Inclusion Levels In Broiler Nutrition On Growth Performance, Nutrient Digestibility, Plasma Immunoglobulins, And Cecal Microflora Composition. *Poult. Sci*. 89:58–67.
- Mukhtar, S. dan Ghoris, I. 2012. Antibacterial Activity of Aqueous and Ethanolic Extracts of Garlic, Cinnamon, and Turmeric Against *Escherichia coli*

ATCC 25922 and *Bacillus subtilis* DSM 3256. *International Journal of Applied Biology and Pharmaceutical Technology*. 3 (2): 131-136.

Nadhilla, N.F. 2014. The Activity Of Antibacterial Agent Of Honey Against *Staphylococcus Aureus*. *Jurnal Majority* Vol.3(7): 96-98.

Natalia, L., dan Priadi, A., 2006, Sifat Lactobacilli yang Diisolasi dari Usus Ayam sebagai Prebiotik, *Seminar Nasional Teknologi Peternakan dan Veteriner*, h. 801-811.

National Office Of Animal Health (NOAH), 2001. Antibiotics For Animals. An Overview. [Http://Www.Noah.Co.Uk/Issues/Briefingdoc/06-Antib.Htm](http://Www.Noah.Co.Uk/Issues/Briefingdoc/06-Antib.Htm). Last Updated October 2007.

Natta L, Orapin K, Krittika N, Pantip B. 2008. Essential oil from five zingiberaceae for anti food-borne bacteria. *International Food Research Journal* 15(3):337-346

Nayik, G.A. dan Nanda, V. (2015). Physico-chemical, enzymatic, mineral and colour characterization of three different varieties of honey from kashmir valley of India with a multivariate approach. *Polish Journal of Food and Nutrition Sciences* 65(2): 101–108.

Niamsa N dan Sittiwet C. 2009. Antimicrobial activity of curcuma longa aqueous extract. *Journal of Pharmacology and Toxicology*, 4: 173-177.

Noor SM, Poelongan M. 2005. Pemakaian Antibiotik Pada Ternak Dan Dampaknya Pada Kesehatan Manusia. *Prosiding Lokakarya Nasional Keamanan Pangan Produk Peternakan*. Bogor (ID): Puslitbang Peternakan.

Nursal, Wulandari, S., Juwita, WS. 2006. Bioaktivitas Ekstrak Jahe (*Zingiber officinale*) dalam Menghambat Pertumbuhan Koloni Bakteri *Eschericia Coli* dan *Bacillus Subtilis*. *Jurnal Biogenesis* Vol. 2(2): 64-66.

Ogbu, K. I. 2018. Comparative Study On The Antibacterial Activities Of Bee Product (Propolis, Pollen, Bee Wax And Honey). *IOSR Journal Of Pharmacy And Biological Sciences* (IOSR JPBS) 13.2 (2018): 20-27.

Oramahi. R, Yudhabuntara.D, Budiharta.S. 2004. Kajian Residu Antibiotik Pada Hati Ayam Di Kota Yogyakarta. Program Studi Sain Veteriner. Pascasarjana. Universitas Gadjah Mada.

O'Sullivan, L., Murphy, B., McLoughlin, P., Duggan, P., Lawlor, P. G., Hughes, H., dan Gardiner, G. E. 2010. Prebiotics from Marine Macroalgae for Human and Animal Health Applications. *Marine Drugs*, 8(7), 2038–2064.

- Ozaki, Y. 1990. Antiinflammatory effect of *Curcuma xanthorrhiza* ROXB. and its active principles. *Chemical Pharmaceutical Bulletin*. 38(4) : 1045-1048.
- Ozaki, Y. dan Liang, O.B. 1988. Cholagogic Action the Essential oils Obtain from *Curcuma xanthorrhiza* Roxb. *Shoyalu zasshi*. 24 (4), 257-263.
- Panda A. K., Rao S. V. R., Raju M. V., Sharma S. R. 2006. Dietary supplementation of *Lactobacillus sporogenes* on performance and serum biochemico-lipid profile of broiler chickens. *Poultry Sci*. 43:235-240.
- Page. 2003. The Role Of Enteric Antibiotics In Livestock Production. *Avicare Limited Canberra Australia*. P, 1-1-3, 2-1-6.
- Parker, R.B., 1974. Probiotics, The Other Half Of The Antibiotic Story. *Anim. Nutr. Health* 29, 4–8.
- Parkhurst, C. R., F. W. Edens, and I. A. Casas, 1991. *Lactobacillus reuteri* and dietary whey effect on twenty day body weights of turkey poultts subjected to either cold or low protein stress. *Poultry Sci*. 70(Suppl. 1):173.
- Parwata, IM, O.A. Dan P.F.S. Dewi. 2008. Isolasi Dan Uji Aktivitas Antibakteri Minyak Atsiri Dari Rimpang Lengkuas (*Alpina Galanga L*). *J.Kimia* 2(2): 100-104
- Pelczar M.J and E.C.S Chan. 1986 *Dasar-dasar mikrobiologi 2*. Diterjemahkan oleh Hadioetomo RS, Imas T, Tjitrosomo SS, Angka SL. Penerbit Universitas Indonesia. Jakarta. hal. 489-522.
- Pelczar, M. J., Chan, E. C. S., 1988. *Dasar-Dasar Mikrobiologi*. Jakarta: Universitas Indonesia Press.
- Permentan. 2017. Peraturan Mentri Pertanian Republik Indonesia Nomor 14/PERMENTAN/PK.350/5/2017 Tentang Klasifikasi Obat Hewan.
- Poelengan, M. 1998. The effect of red ginger (*Zingiber offinalle* var. *Rubrum*) Extract on the growth of *Escherchia coli* isolated from native chicken, cattle and pig. *Bulletin of Animal Science, Supplement Edition*, ISSN 0126-4400.
- Prana, M.S. 1985. Beberapa aspek biologit temulawak (*Curcuma xanthorrhiza* Roxb.). *Prosiding Simposium Nasional Temulawak*. Bandung 17 –18 September 1985, hal. 42 – 48.
- Prakasita, V.C., Asmara, W.,Widyarini, S., Wahyuni, A.E.T.H. 2019. Combinations Of Herbs Andprobiotics As An Alternative Growth Promoter : An *In Vitro* Study. *Veterinary World*, EISSN : 2231-0916.

- Prayer, F. 2015. Pengaruh Penambahan Zat Aditif (Enzim Dan Asam Organik) Dengan Protein Tinggi Dan Rendah Pada Pakan Berbasis Dedak Terhadap Performan Kelinci. Jurnal Zootek Vol. 35 No. 2 : 280 – 288.
- Prescott, L.M. dan Harley, J.P. 2002. Laboratory Exercises in Microbiology. 5th edition. Mc Graw-Hill Company.
- Priosoeryanto, B.P., E. Djauhari., K. Darusman dan W. Nurcholis. 2008. Activities of temulawak (*curcuma xanthorrhiza roxb*) on antibody titer and phagocytosismactivity and capacity of phagocytic cells of avian influenza (ai)-vaccinated chicken. The first int. Symp. On temulawak (*curcuma xanthorrhiza roxb*). Bogor, 27-29 mei 2008. Institut pertanian bogor. Bogor. Abstract p10. P. 29.
- Priyatmoko, W. 2008. Aktivitas Antibakteri Karang Lunak Hasil Transplantasi (*Sinularia* Sp.) Pada Dua Kedalaman Berbeda Di Perairan Pulau Pramuka Kepulauan Seribu, Dki Jakarta. Fakultas Perikanan Dan Ilmu Kelautan Institut Pertanian Bogor. Bogor.
- Purbaya, J.R. 2007. Mengenal dan Memanfaa-t kan Khasiat Madu Alami. Penerbit Pionir Jaya, Bandung.
- Quinn, P.J., Carter, M.E., Markey, B., Carter, G.R. 2004. Clinical Veterinary Microbiology. Mosby, Toronto, pp. 226-236.
- Quinn, P.J., Markey, B.K., Leonard, F.C., FitzPatrick, E.S., Fanning, S. dan Hartigan, P.J. 2011. Veterinary Microbiology and Microbial Disease 2nd Ed. John Wiley & Sons Ltd., UK, pp. 301-305, 314-321.
- Rahingtyas, D.K. 2008. Pemanfaatan Jahe (*Zingiber Officinale*) Sebagai Tablet Isap untuk Ibu Hamil dengan Gejala Mual dan Muntah. Skripsi. Institut Pertanian Bogor. Bogor.
- Raja, B.R. dan Kantha D.A. 2011. Market Potential For Probiotic Nutritional Supplements In India. African Journal Of Business Management. 5 (14) Pp. 5418- 5423.
- Rajsekhar, S., Chandaker, A., dan Upmanyu, N. 2012. Spice As Antimicrobial Agents: A Review. *International Research Journal Of Pharmacy*, 3(2), 4–9.
- Ravindran, V dan R. Blair. 2012. Feed Resources For Poultry Production In Asia And The Pacific. II. Plant Protein Sources. *World's Poultry Science Journal*, 48: 205–231.
- Rismunandar. 1988. Rempah-rempah. Cetakan Pertama. CV. Sinar Baru, Bandung.

- Roberfroid, M.B. 1993. Dietary fibre, inulin, and oligofructose: A review comparing their physiological effects. *Critical Reviews in Food Sciences and Nutrition* 33:103-48.
- Roberfroid, M.B. 2000 Prebiotics and Probiotics: Are They Functional Foods? *American Journal of Clinical Nutrition*. 71, 1682S-1687S.
- Rosendale, D. I., Maddox, I. S., Miles, M. C., Rodier, M., Skinner, M., Sutherland, J. 2008. High-throughput microbial bioassays to screen potential New Zealand functional food ingredients intended to manage the growth of probiotic and pathogenic gut bacteria. *International Journal of Food Science and Technology*, 43: 2257–2267.
- Rukayadi, Y, Hwang JK. 2006 In vitro activity of xanthorrhizol against *Streptococcus mutans* Biofilm. *Appl microbial* 42 : 400 – 404.
- Ruiz-Matute AI, Brokl M, Soria AC, Sanz ML, Matinez-Castro I. 2010. Gas Chromatographic Mass Pectrometric Characterisation Of Tri And Tetrasaccharides In Honey. *Food Chem*. 120:637–642.
- Salminen, S., E. Isolauri and E. Salminen. 1996. Clinical Uses Of Probiotics For Stabilizing The Gut Mucosal Barrier: Successful Strains And Future Challenges. *Antonie Van Leeuwenhoek* 70: 347 – 358.
- Saniwati, Nuraini, Agustina D. 2015. Studi Residu Antibiotik Daging Broiler Yang Beredar Di Pasar Tradisional Kota Kendari. *Fakultas Peternakan Halu Oleo. JITRO VOL. 1. NO 3*.
- Sari, K.I.P., Periadnadi, Dan Nasir, N. 2013. Uji Antimikroba Ekstrak Segar Jahe-Jahean (Zingiberaceae) Terhadap *Staphylococcus Aureus*, *Escherichia Coli*, Dan *Candida Albicans*. *Jurnal Biologi Universitas Andalas*. 2 (1): 20-24.
- Sarwono B. 2001. Kiat Mengatasi Permasalahan Praktis Lebah Madu. Agro Media Pustaka. Jakarta.
- Saxena S, Gautam S, Sharma A. Physical, biochemical and antioxidant properties of some Indian honeys. 2010. *Food Chem*. 118:391–397.
- Setiawan, Budi. 2015. Peluang Usaha Budidaya Jahe. Pustaka Baru Press. Yogyakarta.
- Setyanto, A., U. Atmomarsono, dan R. Muryani. 2012. Pengaruh Penggunaan Tepung Jahe Emprit (*Zingiber officinale* var *Amarum*) dalam Ransum terhadap Laju Pakan dan Kecernaan Pakan Ayam Kampung Umur 12 Minggu. *Animal Agriculture Journal*. 1 (1): 711 –720.

- Shamala, T. R., Shri Jyothi, Y., Saibaba, P. 2000. Stimulatory effect of honey on multiplication of lactic acid bacteria under in vitro and in vivo conditions. *Letters in Applied Microbiology*, 30: 453–455.
- Sidik, Mulayono MW., dan Muhtadi A. 1995. *Temulawak (Curcums xanthorrhiza Roxb)*. Yayasan Pengembangan dan Pemanfaatan Obat Bahan Alam. Jakarta.
- Sihombing, D.T.H. 2005. Ilmu Ternak Lebah Madu. Yogyakarta: Gadjah Mada University Press.
- Simadibrata, M. 2011. Probiotik Dan Peranannya Dalam Dunia Medis.Divisi Gasatroenterologi Departemen Ilmu Penyakit Dalam. Fakultas Kedokteran. Universitas Indonesia.Jakarta.
- Sinurat, A. P., T. Purwadaria, M. H. Togatorop dan T. Pasaribu. 2003. Pemanfaatan Bioaktif Tanaman Sebagai “Feed Additive” Pada Ternak Unggas: Pengaruh Pemberian Gel Lidah Buaya Atau Ekstraknya Dalam Ransum Terhadap Penampilan Ayam Pedaging. *JITV* 8 (3): 139-145.
- Sinurat. A., Purwadaria. T, Bintang. I.A.K. Ketaren. P.P Bernawie.N. Raharjo. M. Rizal.M. 2009.Pemanfaatan Kunyit dan Tembulawak Sebagian Imbuhan Pakan Untuk Ayam Broiler. *JITV* 14 (2) : 90-96.
- Siswandono dan Soekardjo, B., 1995, Kimia Medisinal, 28-29, 157, Airlangga University Press, Surabaya.
- Soepardi. 2001. Kajian Karakteristik Jahe Berdasarkan Ukuran dan Lama Perendaman Serbuk Jahe dalam Etanol. *Skripsi*. Surakarta: Jurusan Teknologi Hasil Pertanian.
- Soesanto, L. 2008. Pengantar Pengendalian Hayati Penyakit Tanaman. PT Raja Grafindo Persada, Jakarta.
- Sufiriyanto dan Indradji M. 2007. Efektivitas Pemberian Ekstrak Temulawak (*Curcuma xanthorrhiza*) dan Kunyit (*Curcuma domestica*) dan Sebagai Immunostimulator Flu Burung pada Ayam Niaga Pedaging. *J Animal Production* 9: 178-183.
- Suranto, A. 2004. Khasiat Dan Manfaat Madu Herbal. Agromedia Pustaka Jakarta.
- Suriawiria, H. U. 2000. Madu Untuk Kesehatan, Kebugaran Dan Kecantikan. Penerbit Pupus Sinar Kinarti. Jakarta.
- Svensson, U. 1999. Industrial Perspectives. Probiotics: A Critical Review, 15-8: 57-64. ISBN: 1898486.

- Tellez, G., Pixley, C., Wolfenden, R. E., Layton, S. L. & Hargis, B. M. 2012. Probiotics/Direct Fed Microbials For Salmonella Control In Poultry. *Food Research International*. 45, 628-633.
- Thomke, S. And Elwinger, K. 1998. Growth Promotants In Feeding Pigs And Poultry. I. Growth And Feed Efficiency Responses To Antibiotic Growth Promotants. *Ann. Zootech.*, 47: 85-97.
- Tian, H., Maddox, I. S., Ferguson, L. R., Shu, Q. 2010. Influence of bovine lactoferrin on selected probiotic bacteria and intestinal pathogens. *BioMetals*. 23: 593–596.
- Tilong, AD. Kitab Herbal Khusus Stroke. 2013. Cetakan 2. Yogyakarta : D-Medika.
- Valgas C., Machado De Souza., Smania S., Smanis EFA. 2007. Screening Methods To Determine Antibacterial Activity Of Natural Products. *Braz. J. Microbial*. 38: 369-380.
- Vidanarachchi, J.K., Mikkelsen, L.L., Sims, I., Iji, P.A., Choct, M., 2005. Phytobiotics: alternatives to antibiotic growth promoters in monogastric animal feeds. *Recent Adv. Anim. Nutr. Aust.* 15, 131– 144.
- Vidanarachchim J. K. 2006. Regulation of intestinal microflora and productivity of broiler chickens by prebiotic and bioactive plant extracts. PhD thesis, Faculty of Science, University of New England, Armidale, Australia.
- Vinderola, C. G., N. Bailo, And J. A. Reinheimer. 2000. Survival Of Probiotic Microflora In Argentinian Yoghurts During Refrigerated Storage. *Food Res.* 33:97–102.
- Volk, W.A., Dan Wheeler, M.F. 1993. Mikrobiologi Dasar. Jilid III. Penerbit Erlangga. Jakarta.
- Wahyuni, Astri. 2016. Aktivitas Antibakteri Sari Temulawak Terhadap Pertumbuhan Bakteri *Escherchia coli* yang Diisolasi dari Feses Broiler. *Tesis*. Universitas Islam Negeri Alauddin Makassar.
- Wang, Y-C., Yu, R-C., Chou, C-C. 2006. Antioxidative Activities Of Soymilk Fermented With Lactic Acid Bacteria And Bifidobacteria. *Journal Of Food Microbiology*. 23 (2), 128 135.

- Wang WC, Yan FF, Hu JY, Amen OA, Cheng HW. 2018. Supplementation of *Bacillus subtilis*-based probiotic reduces heat stress-related behaviors and inflammatory response in broiler chickens. *J Anim Sci.* 4;96(5):1654-1666.
- Weston RJ, Brocklebank LK. 1999. The Oligosaccharide Composition Of Some New Zealand Honeys. *Food Chem.* 64:33–37.
- Widodo, W. 2002. Nutrisi dan Pakan Unggas Kontekstual. Proyek Peningkatan Penelitian Pendidikan Tinggi Direktorat Jendral Pendidikan Tinggi Departemen Pendidikan Nasional. Jakarta.
- Winarsih, W., Priosoeryanto, B.P., Lay, B. W., Wibawan, I.W.T., Kompiang, I.P. 2007. Pengaruh Probiotik Terhadap Fagositosis Sel Polimorfonuklear Ayam Broiler. *Ind. J. Dent.* 2007, 11 (2): 37-43.
- Winarno, F. G. 1982. Madu: Teknologi Khasiat dan Analisa. Ghalia Indonesia, Jakarta.
- Winarto, W. P. 2003. Khasiat dan Manfaat Kunyit. Agromedia Pustaka, Jakarta.
- Windisch, W., Kroismayr, A., 2007. Natural phytobiotics for health of young piglets and poultry: mechanisms and application. *Poult. Sci.* 86 (Suppl. 1), 643.
- Windisch W, Schedle K, Plitzner C, Kroimayr A. 2007. Use of phytogenic products as feed additives for swine and poultry. *J Anim Sci.* 86:140-148.
- Winston, J. E. 1992. Systematics and Marine Conservation, pp. 144–168 in N. Eldredge, ed. *Systematics, Ecology and the Biodiversity Crisis*. New York: Columbia University Press.
- Wiryanawan KG, S Suharti & M Bintang. 2005. Kajian Antibakteri Temulawak, Jahe dan Bawang Putih terhadap *Salmonella typhimurium* serta Pengaruh Bawang Putih terhadap Performans dan Respons Imun Ayam Pedaging. *Media Peternakan* 28 (2):52-62.
- White, Jr., J.W. 1978. Honey. *Advances in food research*, 24, 287–374. doi:10.1016/S0065-2628(08)60160-3.
- White, Jr., J.W., Subers, M.H., & Schepartz, A.J. 1963. The identification of inhibine, the antibacterial factor in honey, as hydrogen peroxide and its origin in a honey glucose-oxidase system. *Biochimica et Biophysica Acta (BBA) – Specialized Section on Enzymological Subjects*, 73, 57–70.

- Wichienchot, S., Jatupornpipat, M., dan Rastall, R.A. 2010. Oligosaccharides of Pitaya (Dragon Fruit) Flesh and Their Prebiotic Properties. *Food Chemistry*. 120: 850-857.
- Wong, J.M.; De Souza, R.; Kendall, C.W.; Emam, A.; Jenkins, D.J. 2016. Colonic Health: Fermentation And Short Chain Fatty Acids. *J. Clin. Gastroent*, 40, 235–243.
- World Health Organization (WHO). 2012. Global Tuberculosis Report 2012. Geneva: WHO Press.
- Wu, B. Q., Zhang, T., Guo, L. Q., dan Lin, J. F. 2011. Effects Of *Bacillus Subtilis* KD1 On Broiler Intestinal Flora. *Poultry Science*. 90(11), 2493–2499.
- Yang, C. M., G. T. Cao, P. R. Ferket, T. T. Liu, L. Zhou, L. Zhang, Y. P. Xiao, And A. G. Chen. 2012. Effects Of Probiotic, *Clostridium Butyricum*, On Growth Performance, Immune Function, And Cecal Microflora In Broiler Chickens. *Poult. Sci*. 91:2121–2129.
- Yu AC, Loo JF, Yu S, Kong SK, Chan TF. 2014. Monitoring bacterial growth using tunable resistive pulse sensing with a pore-based technique. *Applied Microbiology and Biotechnology*. 98 (2): 855–62.
- Yusron, M. 2009. Respon temulawak (*Curcuma xanthorrhiza* Roxb) terhadap pemberian pupuk bio pada kondisi agroekologi yang berbeda. *Jurnal Littri* 15(4):162-167.
- Zadeh, J.B. dan Kor, .N.M. 2014. Physiological and pharmaceutical effects of Ginger (*Zingiber officinale* Roscoe) as a valuable medicinal plant. *European Journal of Experimental Biology*. 4(1): 87–90.
- Zhang, Z, Kim. I. 2014. Effect Of Multistrain Probiotics On Growth Performance, Apparent Ileal Nutrient Digestibility, Blood Characteristics, Caecal Microbial Shedding, And Excreta Odor Contents In Broilers. *Poultry Science*. 93 (2) : 364-370.
- Zhou, Q., Wang, S., Yang, G., Zhao, W., dan Li, H.L. 2016. Development and Evaluation of Herbal Formulation with Antipathogenic Activities and Probiotics Stimulatory Effect. *Journal Integrative Agriculture*. 15 (5): 1103-1111.