

## DAFTAR PUSTAKA

- Abdel-Fattah, S.A., El-Sanhoury, M.H., El-Mednay N.M. and Abdel-Azeem, F. 2008, Thyroid activity, some blood constituents, organs morphology and performance of broiler chicks fed supplemental organic acids, *Inter. J. Poult. Sci.*, **7**(3): 215-222.
- Adil, S., Banday, M.T., Bhat, G. A., and Mir, M. S. 2010, A review - Alternative Strategies to Antibiotic Growth Promoters, Faculty of Veterinary Sciences and Animal Husbandry, University of Agricultural Sciences & Technology of Kashmir, India.
- Adil, S., Banday, T., Ahmad Bhat, G., Salahuddin, M., Raquib, M., and Shanaz, S. 2011, Response of Broiler Chicken to Dietary Supplementation of Organic Acids, *J.l of Cent. Europ. Agric.*, **12**(3): 498-508.
- Akyurek, H., Ozduven, M. L., Okur, A. A., Koc, F., and Samli, H. E. 2011, The effects of supplementing an organic acid blend and/or microbial phytase to a corn-soybean based diet fed to broiler chickens, *Afric. J. of Agric. Res.*, **6** (3): 642-649.
- Amrullah, I. K. 2004, *Nutrisi ayam broiler*. Lembaga Satu Gunungbudi, Bogor.
- Anna, L. K. 2012, Konsumsi Protein Hewani Rendah, [www.kompas.com](http://www.kompas.com), 27 Juni 2012, diakses pada tanggal 1 Desember 2014.
- Anonim. 2012, Material Safety Data Sheet Formic Acid, *Caledon Laboratories Ltd.*, pp: 1-3.
- Anonim. 2013, Material Safety Data Sheet Formic acid, 85%, F.C.C MSDS, *Science Lab.*, pp: 1-6.
- Arifien, M. 1997, *Kiat Menekan Konversi Pakan Pada Ayam Broiler*, Poultry Indonesia. Edisi 2003: Jakarta.
- Barbut, S. 2002, *Poultry Product Processing: An Industry Guide*, CRC Press: Canada, pp: 1-30.
- Becker, W. A., Spencer, J. V., Mirish, L. W., and Verstrate, J. A. 1981, Abdominal And Carcass Fat In Five Body Strain, *J. Poult. Sci.*, **60**: 693-697.
- Berchieri, A. 2000, Prevention Of Salmonella Infection By Contact Using Intestinal Flora Of Adult Bird And / Or A Mixture Of Organic Acid, *Brazil. J. of Micro.*, **31**: 116-120.
- Best, P. 2004, Acidifiers receive a show up date, *J. Feed Int.*, **25** (2): 6-8.

- Blank, R., Mosenthin, R., Sauer, W.C., and Huang, S. 1999, Effect of Fumaric Acid and Dietary Buffering Capacity on Heal and Fecal Amino Acid Digestibilities in Early-Weaned Pigs, *J. Anim. Sci.*, **77**: 2974-2984.
- Bogosavljevic-Boskovic, S., Gajic, I., and Gajic, Z. 1999, The Influence of Rearing Systems on Basic Tissue Share and Muscle Chemical Structure in Broilers, 45th International Congress of Meat Science and Technology, 01-06 August, Yokohama, Japan, Proceedings: pp. 510-511.
- Bogosavljevic-Boskovic, S., Pavlovski, Z., Petrovic, M. D., Doskovic, V., and Rakonjac, S. 2010, Broiler meat quality: Proteins and Lipids of Muscle Tissue, *Afric. J. of Biotech.*, **9** (54) : 9177-9182.
- Bozkurt, M., Küçükylmaz, K., Çatlı, A.U. and Çınar, M. 2009, The effect of single or combined dietary supplementation of prebiotics, organic acid and probiotics on performance and slaughter characteristics of broilers, *South Afric. J. of Anim. Sci.*, pp: 39 (3).
- Broek, Van den G.Ir. 2000, *Organic acid: Natural link between drug and growth promoter*, Feed Mix (Special), 09-11November.
- Brook, G. D. C. and Marshall, J. N. 1996, *Essential Endocrinology.*, 3rd ed Oxford: Blackwell Science.
- Brooks, M. A., Choi, C. W., Lunt, D. K., Choi, C. B., and Smith, S. B. 2011, Case Study: Carcass and Meat Characteristics and M. Longissimus Thoracis Histology of Beef from Calf-Fed and Yearling-Fed Angus Steers, *J. The Prof. Anim. Sci.*, **27**: 385–393.
- Brzoska, F., Sliwinski, B., and Michalik-Rutkowska, O. 2013, Effect of Dietary Acidifier on Growth, Mortality, Post-Slaughter Parameters and Meat Composition of Broiler Chickens, *J. Ann. Anim. Sci.*, **13** (1): 85-96.
- Buhler, K. 2009, Benzoic Acid as Feed Additive in Pig Nutrition: Effects of Diet Composition on Performance, Digestion and Ecological Aspects, Proceedings of the Society of Nutrition Physiology, pp: 12-14.
- Byrd, J. A., Hargis, B. M., Cardwell, D. J., Bailey, R. H., McReynolds, K. L., and Brew, R. L. 2001, Effect Of Lactic Acid Administration In The Drinking Water Duringpreslaughter Feed Withdrawl On Salmonella And CampylobacterContamination Of Broiler, *J. Poult. Sci.*, **80**: 278-283.
- Cahyono, B. 2004, Cara Meningkatkan Budidaya Ayam Ras Pedaging (Broiler). Pustaka Nusatama, Yogyakarta.

- Canibe, N., Hojberg, O., Hojsgaard, S., and Jensen, B.B. 2005, Feed physical form and formic acid addition to the feed affect the gastrointestinal ecology and growth performance of growing pigs. *J. Anim. Sci.*, **83**: 1287–1302.
- Canibe, N., Steinen, S. H., Overland, M., and Jensen, B. B. 2001, Effect Of K-Diformat In Starter Diets On Acidity, Microbiota And The Amount Of Organic Acid In The Digestive Tract Of Piglets And On Gastric Alterations, *J. Anim. Sci.*, **79**: 2123-2133.
- Castellini, C., Muginai, C., and Dal Bosco, A. 2002, Effect of organic production system on broiler carcass and meat quality, *J. Meat Sci.*, **60**: 219-225.
- Cave, N.A.G. 1984, Effect of dietary propionic acids on feed intake in chicks. *J. Poult. Sci.*, **63**: 131-134.
- Charoen Pokphand Indonesia. 2006, *Manual Manajemen Broiler CP 707*. CP GROUP, Jakarta.
- Daud, M., Piliang, M. G., dan Kompiang, I. P. 2007, Carcass Percentage and Quality of Broilers Given a Ration Containing Probiotics and Prebiotics, *JITV*, **12**(3): 167-174.
- de Roos, N. M. and Katan, M.B. 2000, Effects Of Probiotic Bacteria On Diarrhea, Lipid Metabolism And Carcinogenesis: A Review Of Paper Published Between 1988 And 1998, *Ame. J. of Clin. Nutri.*, **71**(2): 405-411.
- Deaton, J. W. and Lott, B. D. 1985, Age And Dietary Energy Effect On Broiler Abdominal Fat Deposition, *J. Poult. Sci.*, **14**: 291–301.
- Denli, M., Okan, F., and Celik, K. 2003, Effect of Dietary Probiotic, Organic Acid and Antibiotic Supplementation to Diets on Broiler Performance and Carcass Yield, *Pak. J. Nutr.*, **2**:89-91.
- Diaz, O., Rodriguez, L., Torres, A., and Cobos, A. 2010, Chemical Composition and Physico-Chemical Properties of Meat from Capons as Affected by Breed and Age, *Span. J. Agric. Res.*, **8** (1): 91-99.
- Dibner, J., 2004, Organic acids: Can they replace antibiotic growth promoters?, *Feed Int.*, **25**(12): 14-16.
- Dibner, J.J. and Winter, B. 2002, Use of organic acids as a model study the impact of gut microflora on nutrition and metabolism, *J. Appl. Poult. Res.*, **10**: 453-463.
- Dibner, J. J., and Buttin, P. 2002, Use of organic acids as a model to study the impact of gut microflora on nutrition and metabolism. *J. Appl. Poult. Res.*, **11**:453–463.

- Dou, T.C., Shi, S.R., Sun, H.J., and Wang, K.H. 2009, Growth Rate, Carcass Traits and Meat Quality of Slow-Growing Chicken Grown According to Three Raising Systems, *Anim. Sci. Papers and Reports*, **27** (4): 361-369.
- Dyubele, N L., Muchenje, V., Nkukwana, T. T., and Chimonyo, M. 2010, Consumer Sensory Characteristics of Broiler and Indigenous Chicken Meat: A South African Example, *J. Food Qual. and Pref.*, **21**: 815–819.
- EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), 2012. Guidance for the preparation of dossiers for technological additives. *EFSA J.*, 2012; **10** (1): 2528, 23.
- Eisemann JH and van Heugten E, 2007. Response of pigs to dietary inclusion of formic acid and ammonium formate. *J. Anim. Sci.*, 85: 1530–1539.
- European Food Safety Authority (EFSA). 2014, Scientific Opinion On The Safety And Efficacy Of Formic Acid When Used As A Technological Additive For All Animal Species, *EFSA J.*, **12** (10): 38-27.
- Fallah, R. and Rezaei, H. 2013, Effect of Dietary Prebiotic and Acidifier Supplementation on The Growth Performance, Carcass Characteristics and Serum Biochemical Parameters of Broilers, *J. of Cell and Anim. Bio.*, **7** (2): 21-24.
- Fallah, R., Kiani, A., and Azarfar, A. 2013, A Review of The Role of Five Kinds of Alternatives to Infeed Antibiotics in Broiler Production, *J. Ved. Med. and Anim.*, **5** (11): 317-321.
- García, V., Catalá-Gregori, P., Hernández, F., Megías, M. D., and Madrid, J. 2007, Effect of formic acid and plant extracts on growth, nutrient digestibility, intestine mucosa morphology and meat yield of broilers. *J. of App. Poult. Res.*, **16**: 555–562.
- Ghahri, H., Gaykani, R., and Toloie, T., 2010, Effect of Dietary Crude Protein Level on Performance and Lysine Requirements of Male Broiler Chickens. *Afr. J. Agric. Res.*, **5** (11): 1228-1234.
- Giffiths, L., Leeson, S., and Summers, J.D. 1998, Studies and abdominal fat with four commercial strain of male broiler chicken, *J. Poult. Sci.*, p. 1203.
- Gu, X.H., Li, S.S., and Lin, H. 2008, Effects of Hot Environment and Dietary Protein Level on Growth Performance and Meat Quality of Broiler Chickens. *Asian-Australasian J. Anim. Sci.*, **21** (11): 1616-1622.
- Gunat, M., Yayli, G., Kaya, O., Karahan N. and Sulak, O. 2006, The effects of antibiotic growth promoter, probiotic or organic acid supplementation on performance, intestinal microflora and tissue of broilers. *Inter. J. Poult. Sci.*, **5** (2): 149-155.

- Harvey, A. L. and Marshall, I. G., 2000, *Avian Physiology: Skeletal Muscle*, University of Glasgow: United Kingdom, pp: 123-126.
- Hassan, H. M. A., Mohamed, M. A., Youssef, A. W., dan Hassan, E. R., 2010, Effect of Using Organic Acids to Substitute Antibiotic Growth Promoters on Performance and Intestinal Microflora of Broilers, *Asian-Aust. J. Anim. Sci.*, 23 (10): 1348 – 1353.
- Hernández, F., García, V., Madrid, J., Orengo, J., Catala, P., and Megías, M.D. 2006, Effect of formic acid on performance, digestibility, intestinal histomorphology and plasma metabolite levels of broiler chicks, *British J. Poult. Sci.*, **47**: 50–56.
- Hui, Y. H., Nip, W., Rogers, R. W., and Young, O. A. 2001, *Meat Science and Applications*, Marcel Dekker, Inc: New York, pp: 1-20.
- Ihsan, F. N. 2006, Persentase Berat Karkas, Lemak Abdomen, dan Organ Dalam Ayam Broiler dengan Pemberian Silase Ransum Komersial, Skripsi, Program Studi Teknologi Produksi Ternak, Fakultas Peternakan, Institut Pertanian Bogor, pp: 14.
- Ismoyowati dan Widiyastuti, T. 2003, Kandungan lemak dan kolesterol daging bagian dada dan paha berbagai unggas lokal, *J. Anim. Prod.*, **5**(2): 79-82.
- Izat, A.L., Adams, M.H., Cabel, M.C., Colberg, M., Reiber, M.A., Skinner, J.T., and Waldroup, P.W. 2006, Effects of formic acid or calcium formate in feed on performance and microbiological characteristics of broilers, *J. Poult. Sci.*, **69**: 1876-82.
- Jayanata, C. E. and Harianto, B. 2011, *28 Hari Panen Ayam Broiler*, AgroMedia Pustaka: Jakarta, p: 13.
- Juan, C., Hai-tian, M., Man, W., Yi-li, K., and Si-xiang, Z. 2011, Creatine Pyruvate Enhances Lipolysis and Protein Synthesis in Broiler Chicken, *China J. Agric. Sci.*, 10 (12): 1977-1985.
- Kaniawati, S., Skinner, J.T., Waldroup, P.W., Izat, A.L., and Colberg, M. 1992, Effects of feeding organic acids to broilers on performance and salmonella colonization of the caeca and or contamination of the carcass, *J. Poult. Sci.*, **71** (1): 159.
- Kartasudjana, R., and Suprijatna, E. 2006, *Manajemen Ternak Unggas*, Penebar Swadaya: Jakarta.
- Kim, Y. Y., Kil, D. Y., Oh, H. K., and Han, I. K. 2004, Acidifier as an Alternative Material to Antibiotics in Animal Feed, *Asian-Aust. J. Anim. Sci.* **18** (7): 1048-1060.

- Kopecky, J., Hrnar, C., and Weis, J. 2012, Effect of Organic Acids Supplement on Performance of Broiler Chickens, *J. Anim. Sci. Biotech.*, **45** (1): 51-54.
- Král, Angelovičová Mária, Ľubica Mrázová, Jana Tkáčová, Martin Kliment Kucukyilmaz, K. M. Bozkurt, A.U. Cath, E.N. Herken, M. Cunar dan E. Bintas, 2012. Chemical composition, fatty acid profile and colour of broiler meat as affected by organic and conventional rearing systems. *S. Afr. J. Anim Sci.* **42**(4): 360-368.
- Kranen, R. W., Lambooy, E., Veerkamp, C. H., Van Kuppevelt, T. H., and Veerkamp, J. H. 2000, Histological Characterization of Hemorrhages in Muscles of Broiler Chickens, *J. Poult. Sci.*, **79**: 110–116.
- Kucukyilmaz, K., Bozkurt, M., Cath, A.U., Herken, E.N., Cunar, M., and Bintas, E. 2012, Chemical composition, fatty acid profile and colour of broiler meat as affected by organic and conventional rearing systems, *S. Afr. J. Anim Sci.*, **42**(4): 360-368.
- Leeson S. and Summers, J.D. 1980. Production and Carcass Characteristic of the Broiler Chicken. *J. Poult. Sci.* **59**:786-798.
- Lopez, E. M., García, H. S., Malo, L. 2012, Organic Acids as Antimicrobials to Control Salmonella in Meat and Poultry Products, *J. Food Res. Int.*, **45**: 713-721.
- Luckstadt C. 2014, Sodium diformate (NDF) in broiler diets – a performance analysis, Supplementing sodium diformat (NDF) in broiler diets improves their efficiency in a manner similar to that of using potassium diformate (KDF) in swine. *FEED Business WORLDWIDE | January / February 2014*: 44-45.
- Lückstädt, C. 2005, Acid-phytobiotic blends. A sustainable alternative for feed safety, animal health and natural growth promotion in pig farming, *J. Feed Mix.*, **13** (4), 25-27.
- Mabbett, T. 2005, Acid test for feed grain preservation, *J. Food Res. Int.*, **26** (8), 12-17.
- Mellor, S. 2000, Nutraceuticals–alternatives to antibiotics, *J. W. Poult.*, **16** (2): 30-33.
- Mountzouris KC, Tsitrsikos P, Palamidi I, Arvaniti A, Mohnl M, Schatzmayr G, Fegeros K. 2010, Effects of probiotic inclusion levels in broiler nutrition on growth performance, nutrient digestibility, plasma immunoglobulins, and cecal microflora composition. *J. Poult. Sci.*, 2010; **89**: 58–67.
- Mroz, Z., 2005, Organic Acids as Potential Alternatives to Antibiotic Growth Promoters for Pigs, Advances in Pork Production Conference, **16**: 169.

- Muhajir. 2002, *Turunkan kolesterol ayam kampung dengan lisin*, Poultry Indonesia. Edisi September. 68-69.
- Mukhtar, A.M., Mekkawi, A., EI Tigani, M. 2007, The Effect of Feeding Increasing Levels of Synthetic Lysine and Methionine in Broiler Chicks, *Res. J. Anim. Vet. Sci.*, **2**: 18-20.
- Murray, R.K., D.K. Granner., P.A. Mayes and V.W.R. Well. 1999, Biokimia. Andry Hartono penerjemah: Jakarta. Penerbit buku kedokteran EGC hal 260-262, 270-278, 581. Terjemahan dari: Biokimia.
- National Reserch Council (NRC). 1994, Nutrient Requirments of Poultry. 9th Revised Edition. National Academy Press. Washington.
- Nirmalasanti, N. 2002. Pengaruh Pemberian Probiotik Terhadap Gambaran Mikroskopis Usus Ayam. Skripsi. Fakultas Kedokteran Hewan. Institut Pertanian Bogor, Bogor.
- North, M.O. 1992, Commercial Chicken Production Manual 3 th Edition. *Avi Publishing Co. Inc.* Westport. Connecticut.
- Ogunwole, O.A., Abu, O.A., and Adepoju, I.A. 2011, Performance and Carcass Characteristics of Broiler Finishers Fed Acidifier Based Diets, *Pak. J. of Nut.* **10** (7): 631-636.
- Overland, M., Kjeldsen, K.C., and Granli, T. 2004, *Antimicrobial properties of dietary potassium diformate*. In : Tehnical Symposium. Germany.
- Patten, J.D. and Waldroup, P.W., 1998, Use of organic acids in broiler diets. *J. Poult. Sci.*, **67**: 1178-1182.
- Pirgozliev, V., Murphy, T.C., Owens, B., George J. and McCann, M.E. 2008, Fumaric and sorbic acid as additives in broiler feed. *Res. Vet. Sci.*, **84**(3): 387-94.
- Pratikno, H. 2011, Lemak Abdominal Ayam Broiler (*Gallus sp.*) karena Pengaruh Ekstrak Kunyit (*Curcuma domestica.*), *J. BIOMA*, **13**: 1.
- Ramli, N., Suci, D. M., Sunanto, S., Nugraheni, C., Yulifah, A., dan Sofyan, A. 2008, Performan Ayam Broiler yang diberi Ransum Mengandung Pottasium Diformate Sebagai Pengganti Flavomycin, *Agripet*, **8** (1): 1-8.
- Rasyaf, M. 2008, *Panduan Beternak Ayam Pedaging*; Penebar Swadaya: Jakarta, pp: 5-17.
- Razak, A. H. and Junianto, A. 2014, Konsumsi Ayam dan Telur di DIY Masih Rendah, Apa Penyebabnya?, Solopos, <http://www.solopos.com>, 18 November 2014, diakses pada tanggal 1 Desember 2014.

- Richards, J. D., Gong, J., and de Lange, C. F. M. 2005, The gastrointestinal microbial and its role in monogastric nutrition and health with an emphasis on pigs; current understanding possible modulations and new technologies studies, *Can. J. Anim. Sci.*, **85**: 421-435.
- Ricke, S.C. 2003, Perspective on the use of organic acids and short chain fatty acids as antimicrobials. *J. Poult. Sci.* **82**: 632-639.
- Rifqi, A., Mutia, R., dan Zainuddin, D. 2008, Pengaruh Pemberian Feed Additive “RI.1” dan Jenis Pakan yang Berbeda Terhadap Penampilan Ayam Broiler, Skripsi, Institut Pertanian Bogor.
- Rouse, J., Rolow, A., and Nelson, C.E. 1988, Research Note : Effect Of Chemical Treatment Of Poultry Feed On Survival Of Salmonella, *J. Poult. Sci.*, **67**: 1225-1228.
- Santoso, U. 2002, The Effect Of Fermented Product From Bacillus Subtilis On Lipid Fraction Contents Of Broiler Carcass. *J. of Trop. Anim. Dev.*, **27(3)**: 103-106.
- Seeley, R.R., Trent, D.S., and Philip, T. 2000, *Anatomy and Physiology*. 7th ed. New York: Mc Graw-Hill Co.
- Simeonovová, J. 1999, Technology of Poultry, Eggs and other Minor Animal Products (in Czech). MZLU, Brno: p. 247.
- Skinner, J.T., Izat, A.L. & Waldroup, P.W. 1991, Research Note: Fumaric acid enhances performance of broiler chickens. *Poult. Sci.* **70**: 1444-1447.
- Suchy, P., Jelinek, P., Strakova, E., and Hucl, J. 2002, Chemical Composition of Muscles of Hybrid Broiler Chickens During Prolonged Feeding, *Czech J. Anim.Sc.*, **47** (12): 511-518.
- Sufiriyanto dan Indradji, M. 2001, Pengaruh pemberian air minum campuran enzim dan probiotik pada aras protein yang berbeda terhadap berat badan konversi pakan dan indeks produksi ayam pedaging, *J Anim. Prod.*, **3** (1) : 26-30.
- Suryanarayana, M. V. A. N., Suresh, J., and Rajasekhar, M. V. 2012, Organic Acids in Swine Feeding – A Review, *Agri. Sci. Res.h J.*, **2** (9): 523- 533.
- Syahrudin E. 2002, Penggunaan eceng gondok fermentasi dalam ransum terhadap kandungan kolesterol dan sistem pencernaan ayam broiler, *J. Pet. Lingk.*, **8** (2): 44-47.
- Syukron, M. 2006, Kandungan lemak dan kolesterol daging serta persentase organ dalam ayam broiler yang diberi ransum finisher dengan penambahan kepala udang. Skripsi. Fakultas Peternakan. Institut Pertanian Bogor, Bogor.

- Taklim, D., Rosyidi, D., and Achmanu. 2013, Pengaruh Penggunaan Pokem (Setaria italica sp.) Sebagai Substitusi Jagung Dalam Pakan Terhadap Kualitas Fisik Daging Bagian Dada Ayam Pedaging, Universitas Brawijaya: Malang.
- Theron, M. M. and Lues, J. F. R. 2007, Organic Acids and Meat Preservation: A review, *IJ. Food Rev. Int.*, **23**:141-158.
- Thompson, M. 1992, NTP Technical Report on Toxicity Studies of Formic Acid (CAS No: 64-18-6) Administered by Inhalation to F344/N Rats and B6C3F1 Mice, *Formic Acid, Ntp Toxicity Report Number 19*, pp: 9-12.
- Toldra, F. and Reig, M. 2012, Analytical Tools for Assessing the Chemical Safety of Meat and Poultry, SpringerBriefs in Food, Health, and Nutrition 9, London, pp: 1-67.
- Totton, S. C., Farrar, A. M., Wilkins, W., Bucher, O., Waddel, L. A., Wilhelm, B. J., McEwen, S. A., and Rajic, A. 2012, The Effectiveness Of Selected Feed And Water Additives For Reducing Salmonella Spp. Of Public Health Importance In Broiler Chickens: A Systematic Review, Meta-Analysis, And Meta-Regression Approach, *Preventive Veterinary Medicine*, **106**: 197– 213.
- Tumova, E. and Teimouri, A. 2010, Fat Deposition in The Broiler Chicken: A Review, *Sceinta Agric. Bohem.*, **41** (2): 121-128.
- Unandar, T. 2003. *Pedang Bermata Dua*. Disampaikan dalam Feed and Food Batch IV. Himasiter.IPB.
- Vale, M.M., Menten, M.F. J., Morais, S.C.D., Almeida, M. M. and Brainer. 2004, Mixture of formic acid and propionic acid as additives in broiler feeds. *J. Sci. Agric.*, **4**: 61.
- Venkatasubramani, R., Vasanthakumar, P., Chandrasekaran, D., Rajendran, D., and Purushothaman, M. R.. 2013, Performance of Broilers Fed Formic and Propionic Acid Supplemented Diets, *J. Anim. Nut. and Feed Tech.*, **14**: 81-90.
- Wahju, J. 1997, *Ilmu Nutrisi Unggas*. Gadjah Mada University Press. Yogyakarta.
- Wahyudi, F. 2001, *Pengaruh Penambahan Probiotik pada Pakan Tinggi Lemak Jenuh dan Tidak Jenuh terhadap Konsumsi Pakan, Pertambahan Berat Badan, Berat Karkas, Berat Lemak abdomen Ayam Broiler*, Tesis FKH UGM, pp: 10-30.
- Warris, P. D., 2000, *Meat Science: An Introductory Text*, University of Bristol/ United Kingdom, pp: 5-67.
- Wiryan, S. Suharti dan M. Bintang. 2012, *Kajian Antibakteri Temulawak, Jahe dan Bawang Putih terhadap Salmonella Typhimurium serta Pengaruh*

*Bawang Putih terhadap Performans dan Respon Imun Ayam Pedaging. Media Peternakan, 28 (2): 52 – 62.*

Xianjian ZHOU, Erhui JIN, Shenghe LI, Chenfang WANG , Enmei QIAO, Guozhong WU., 2015, Effects of dietary supplementation of probiotics (*Bacillus subtilis*, *Bacillus licheniformis*, and *Bacillus natto*) on broiler muscle development and meat quality, *Turk J Vet Anim Sci* (2015) 39: 203-210.

Yulinery, T., Yulianto, E., dan Nurhidayat, N. 2006, Uji Fisiologis Probiotik *Lactobacillus* sp. yang telah dienkapsulasi dengan menggunakan spray dryer untuk menurunkan kolesterol, *Biodiversitas*, 7(2): 118-122.

Yuniza A. 2002, *Respons Ayam Broiler di Daerah Tropik Terhadap Kelebihan Asupan Energi dalam Upaya Menurunkan Kandungan Lemak Abdominal*. Disertasi. Bogor: Program Pascasarjana. IPB.

Žlender, B., Holcman, A., and Rajar, A. 1995, *The effect of provenance of chickens on dressing percentage and meat composition. Research Reports Biotechnical Faculty University of Ljubljana, Agricultural Issue (Zootechnica)*, Supplement 22, 3rd International Symposium Animal Science Days. Perspectives in the production of various kinds of meat, 26-29 September, Bled, Slovenia, pp: 233-239.