

## DAFTAR PUSTAKA

- Abdel Hafeez, H.M., Saleh, S.S., Tawfeek, I.M.I. Youssef and Abdel Daim A.S.A. 2017. Effects of probiotic, prebiotic, and synbiotic with and without feed restriction on performance, hematological indices and carcass characteristics of broiler chickens. *Asian-Australasian Journal. Animal. Sciences*, 30 (5): 672-682.
- Abdel -Rahem, S.M and Abd-Allah, S.M.S 2011. The effect of singer or combined dietary supplementation of mannan oligosaccharide and probiotic on performance of slaughter characteristic of broilers. *Internasional Journal of Poultry Sciences*, 10(11): 854-862.
- Alshamy, Z., Richardson, K.C., Hünigen, H., Hafez, H., Plendi, J and Masri S.A.L. 2018. Comparison of the gastrointestinal tract of a dual-purpose to a broiler chicken line: A qualitative and quantitative macroscopic and microscopic study. *PLoS one*, 13(10), e020492.
- Amleni, M.L., Isnahan, C.V., dan Bira G.F. 2020. Pengaruh suplementasi *dl methionine* terhadap berta hidup, berat karkas dan konversi pakan ayam broiler. *Journal of Animal Science*. 4(1): 57-60.
- AOAC. 2000. *Official Methods of Analysis*, 17th ed. Association of Official Analytical Chemists, Gaithersburg, MD, USA. Methods 925, 974, 992.
- Apriliyani, F., Suthama, N dan Wahyuni H.I. 2013. Rasio heterofil limfosit dan bobot relatif bursa fabricius akibat kombinasi lama pencahayaan dan pemberian porsi ransum berbeda pada ayam broiler. *Animal Agriculture Journal*. 2 (1): 393 – 399.
- Asmawati, 2013. The effect of in ovo feeding on hatching weigh and small intestinal tissue development of native chicken. (disertasi). Fakultas Peternakan Universitas Hasanuddin. Makassar.
- Azizah, T.R.N., singgih, D.P., Setiyatwan, H., Wijastuti, T and Asmara, I.Y. 2020. Increasing the utilization of ratio on sentul scicken given noni fruit extract (*morinda citrifolia*) with copper and zinc supplementation. *Journal of Tropical Animal Nutrition and Feed Science*. 29(1):25-34.
- Baeza, E., Guilier, L and Petracci, M. 2022. Review: Production Factor effecting poultry carcass and meat quality attributes, *Animal*, 16(1): 100331.
- Biswas A, Dev K, Tyagi P.K, Mandal A. 2023. The effect of multi-strain probiotics as feed additives on performance, immunity, expression of nutrient transporter genes and gut morphometry in broiler chicken. *Anim Biosci*, 35(1): 64-67.
- Bishop, 2011. Bagaimana kualitas air minum farm kita. Diakses pada 29 desember 2024.
- Budiansyah, A. 2004. Pemanfaatan Probiotik Dalam Meningkatkan Penampilan Produksi Ternak Unggas. *Prog Pascasarjana Institut Pertanian Bogor*. Bogor.
- Cazaban, C., Masferrer, N.M., Pascual, R.D., Espadamala, M.N., Costa, T dan Gardin, Y. 2015. Proposed bursa of fabricius weight to body weight ratio standard in commercial broilers. *Journal of Poultry Science*. 94: 2088-2093.
- Dong, S., Li,L., Hao, F., Fang, Z., Zhong, R., Wu, J and Fang, X. 2024. Improving quality of poultry and its meat products with probiotics, prebiotics, and phytoextracts. *Poultry Sciences*, 103:103287.
- Fadillah, R., Polana, A., Alam, S and Purwanto, E .2007. Sukses beternak ayam broiler (success farming in broiler chickens) *Agromedia Pustaka*, Malang. Pp. 110-120.
- Fadillah, R. 2014. *Kunci Sukses Beternak Ayam Broiler di Daerah Tropis*. Agromedia Pustaka, Jakarta
- Fajrih, N., Suthama, N and Yuniyanto, V.D. 2014. Body resistance and productive performances of cross bred local chicken feed inulin of Dahlia tubers. *J. Med.Pet*. 37 (2): 108-114
- Fanani, A.F., Suthama. N dan Sukanto, B. 2014. Retensi nitrogen dan konversi pakan ayam lokal persilangan yang diberi ekstrak umbi dahlia (*Dahlia variabilis*) sebagai sumber inulin. *Jurnal Sains Peternakan*. 12 (2): 35-37.

- Ferrer, V.J., Pinuer, L.A., Garcia, C.A dan Borquez, Y.R. 2015. Metabolic Fluxes in lactic acid bacteria- A review, *Food Biotechnology*, 29(2): 185-217
- Gatesoupe, F.J. 2002. Probiotic and formaldehyde treatments of *Artemia nauplii* as food for larval Pollak, *Pollachius Pollachius*, *Aquaculture*, 212(1-4), 347-360.
- Get Anweh, T. 2016. A review on effect of probiotic supplementation in poultry performance and cholesterol levels of egg and meat. *Journal of World's Poultry Research*, 6 (61): 31-36.
- Gholami-Ahangaran, M., Dehkordi, M.K., Ostadpoor, M., Dastgerdi, A.A., Mahdi, O.A., Jawad, M.A and Mustafa, Y.F. 2022. The synergistic effect of probiotic and phytobiotic for improving growth performance and biological indices in broiler chickens. *Journal Hellenic Veterinay Medical Society*, 73(1): 3681-3688.
- Ginindza, M., Mbatha, KR and Ng'ambi, J. 2022. Dietary Crude Fiber Levels for Optimal Productivity of Male Ross 308 Broiler and Venda Chickens Aged 1 to 42 Days. *Animals*, 12.1333.
- Gurram S, Preetam, V.C., Lakshmi, K.V., Raju, M.L.V and Bora, M.V.S. 2022. Synergistic effect of probiotic, chicory root powder and coriander seed powder on growth performance, antioxidant activity and gut health of broiler chickens. *Plos ONE*, 17(6): e0270231.
- Iriyanti, N., Suhermiyati, S., Irianto, A and Hartoyo, B. 2015. Effect of Dietary Herbs as Feed Additif on Cholesterol Profile and Blood Metabolic Protein in Broiler Chicken. *Seminar International AINI. Manado*.
- Jamilah, N., Suthama dan Mahfudz, L.D. 2013. Performa produksi dan ketahanan tubuh broiler yang diberi pakan stepdown dengan penambahan asam sitrat sebagai acidifier. *JITV* 18: 251 – 257
- Jones, S.D.M., Price, M.A and Berg. 1978. A Review of Carcass Density, its Measurement and Relationship with Bovine Carcass Fatness. *Journal Animal Sciences*, 46(5), 1151-1158.
- Karyadi, E. 2003. Prebiotik memiliki manfaat sangat besar.
- Khieu, B., Brian, O and Jan, E.L. 2002. Methods and tecniquest for the Determination of Amino acid digestibility. *Livestock Research for Rural Development*, 14.
- Kleiber, M. 1961. *The Fire of Life, an introduction to animal energetics*. University of California, Davis, John Wiley & Sons., Inc., New York.
- Kusnadi, E. 2008. Pengaruh temperatur kandang terhadap konsumsi ransum dan komponen darah broiler. *J. Indon. Trop. Anim. Agric*, 33 (3) : 197-202.
- Listyasari, N., Soeharsono., Purnama, MTE. 2022. Peningkatan bobot badan, konsumsi dan konversi pakan dengan pengaturan komposisi seksing ayam broiler jantan dan betina. *Acta Veterinaria Indonesiana*. 10(3): 275-280.
- Liu y., Xu l., Du, H., feng, J., Zhang, W., Li dan Shu, G. 2023. Effect of adding tea tree oil on growth performance immune function and intestinal function of broiler, *Poultry Science* 102(11), 102936.
- Lokapirnasari, W.P., Al Arif, M.A., Hidayatik, N., Safiranisa, A., Arumdani, D.F., Zahira, A.I., Yulianto, A.B., Lamid, A., Marbun, T.D., Lisnanti, E.F., Baihaqi, A.E., Kahirullah, A.R., Kurniawa, S.C., Pelawi, A.B.S and Hasib, A. 2024. Effect of probiotics and acidifiers on feed intake, egg mass, production performance, and egg yolk chemical composition in late-laying quails. *Veterinary World*, 17(2), 462-469.
- Maiorka, A., Santin, E., Dahlke, F., Boleli, I.C., Furlan R.L., and Macari, M. 2003. Posthatching water and feed deprivation affect the gastrointestinal tract and intestinal mucosa development of broiler chicks. *J. Appl. Poult. Res.*, 12:483-492.

- Majid, W.N., Supratman, H., and Saefulhadjar, D. 2022. The Effect of New Probiotic Heryaki in Ration on Weight Gain and Feed Conversion Ratio in Broiler. *Jurnal Nutrisi Ternak Tropis dan Ilmu Pakan*. 4(2):59-65.
- Marchewka, J., Sztandarski., Sasiadek, Z.Z., Urbanska, D.A., Damaziak, K., Wojciechowski, F., Riber, A.A., Gunnarsson, S., Marchewka, J., Sztandarski, P and danowska-Sasiadek, Z. 2021. Gastrointestinal tract morphometrics and content of commercial and indigenous chicken breeds with differing ranging profiles. *Animals*, 11(7), 1881.
- Maynard, J.D and Lott, B.D. 2005. The effect of environmental temperature on growth and feed conversion of broiler to 21 days of age. *Poult. Sci*, 79: 669- 671.
- Mc Donald, P., Edwards, R.A., Greenhalgh, J.F.D., Morgan, C.A., Sinclair, L.A and Wilkinson, R.G. 2010. *Animal Nutrition*, 7th ed.; Prentice Hall: London, UK., pp., 239-240.
- Meanner, K, vahjen, W., and Simon, O. 2011. Studies on the effects of essential-oil-based feed adittives on performance ileal nutrient digestibility, and selected bacterial groups in the gastrointestinal tract of piglets. *Journal of Animal Science*, 89: 2106-2112.
- Mohammed, A.A., Jacobs, J.A., Murugesan, G.R dan Cheng, H.W. 2018. Effect diateri sinbiotic supplement on behavioral patterns and growth performance of broiler chicken reared under heat stress. *Poultry Science*, 97, 1101-1108.
- Mohammed, L.S, Kamel, E.R., Abo Salem, M.S.T.A and Rames .2016. Effect of probiotic, prebiotic and synbiotic, organic acids and eyzimes supplementation on broiler chick,s immunity in relation to the economic performance. *Benha Veterinary Medical Journal*, 30(2): 34-44.
- Moran, E.T.J.R., Summers, R and Orr, H.R. 1997. Back Fatt quantitative measured of broiler carcass finish, technique, coleration with grade and effect of dietary cloric density. *Food Technology*. 22:999-1038
- Morgan, N.K. 2013. Advances in prebiotics for poultry: role of the caeca and oligo -saccharides. *Animal Production Sciences*, 63(18): 1911-1925.
- Muck, R.E, nadeau, E.M.G, Mc-Allister, T.A., Conteras-Govea, F.E., Santos, M.C, and Kung, L. 2018, Silage review: recent advances and future used of silage additives. *Jurnal of Dairy Sciences*. 101(5) 3980-4000.
- Mulyantini, N.G.A. (2010). *Ilmu Manajemen Ternak Unggas*. Gajah Mada University Pres. Yogyakarta.
- Subekti, K., Abbas, H., and zura K.A. 2012. Carcass quality (carcass weight, percentage of carcass, and abdominal fat)of broiler chicken given a combination of CPO (crude Palm Oil) and Vitamin C (Asorbics acid) in the rations as anti-stress. *Indonesia Journal of Animal Science*, 14(13):447-453.
- Rahardja, D.P., Yusuf, M., Prahesti, I.K., Veronica, S.L. 2022. Efficacy of Early Nutrition Programming for Improving the Performance of Kampung Chicken. *European Journal Veterinary Medical*, 2(5): 9-15.
- Rasyaf, M. 2004. *Beternak Ayam Pedaging*. Jakarta. Penebar Swadaya.
- Rasyaf, M. 2008. *Beternak Ayam Pedaging*. Jakarta. Penebar Swadaya.
- Razak, A.D., Kiramang, K., dan Hidayat, M.N. 2016. Pertambahan bobot badan, konsumsi pakan dan konversi pakan ayam ras pedaging yang diberikan tepung daun sirih (*piper betle linn*) sebagai imbuhan pakan. *Jurnal Ilmu dan Industri Peternakan*. 3(1); 135-147.
- Rehman, A., Arif, M., Sajjad, N., Al Ghadi, M.Q., Alagawani, M., Abd El Hack, M.E., Alhimaidi, AR., Elnesr, SS., Almutairi, BO., Amran., Hussein., EOS and Swelum, AA. 2020. Dietary effect of probiotics and prebiotics on broiler performance, carcass, and immunity. *Poultry. Sciences*, 99(12): 6946-6953.
- Rodde, C., Chatain, B., Vandeputte, M., Trinh, T.Q., Benzie, J.A.H., and Verdal, H. 2020. Can individual feed conversion ratio at commercial size be predicted from juvenile performance in individually reared Nile tilapia *Oreochromis niloticus*. *Aquaquulture Resports*, 17: 100349.

- Ryan, A.S. And Elahi, D. 2007. Body: Composition, Weight, Height, and Build. Maryland School of Medicine and Johns Hopkins School of Medicine, Baltimore, MD, USA.
- Saiyed, M.A., Joshi, R.S., Savaliya, F.P., Patel, A.B., Mishra, R.K and Bhagora, N.J. 2015. Study on inclusion of probiotic, prebiotic and its combination in broiler diet and their effect on carcass characteristics and economics of commercial broilers. *Veterinary World*, 8: 225-231.
- Santoso, H dan Sudaryani, T. 2011. *Pembesaran Ayam Pedaging*. Penebar Swadaya: Jakarta. 9.
- Siwek, M., slawinska, A., atandnicka, K., bogucka, J., Dunislawska, A. and Bednarczyk. 2018. Prebiotic and synbiotic in ovo delivery for improved lifespan condition in chicken, *BMC vet. Res.*, 14(1):1-17.
- Song, X.R., Liu, Y and Zhang, X . 2023. Role of intestinal probiotics in the modulation of lipid metabolism: implications for therapeutic treatments. *Food Science and Human Wellness*, 12: 1439-1449.
- Song, D., Lia, Y., Wang, X., Zhang, P., Weng, R. Zhang and Z. Wu. 2022. Effects of synbiotic on growth, digestibility, immune and antioxidant performance in broilers. *Animal*, 16(4), 100497.
- Steel, R.G.D dan Torrie, J.H. 1991. *Prinsip dan Prosedur Statistika*. PT.Gramedia, Jakarta.
- Sturkie, P.D. 2000. *Avian Physiology*. Ed ke-15. New York (US): Spinger- Verlag.
- Subekti dan Endah. 2015. Pengaruh penambahan probiotik herbal pada ransum terhadap morfometrik itik pedaging, *mediagro*. 11(2).
- Sugiarto, A. Penggunaan berbagai jenis probiotik dalam pakan terhadap performa produksi broiler. *Journal Ilmu Peternakan*. 1(3), 933-937.
- Taveniello, S., Mucci, R., standnicka, k., acaye, O., bednarcczyky, M., and Maiorano, G. 2019. Effect of in ovo administration of different symbiotic on carcass and meat quality traits in the broiler chicken, *poult. Sci.*, 98(1):464-472.
- Tillman, A.P., Hartadi, H., Reksohadiprojo, S., Prawirokusumo, S dan Lebdoesoekodjo, S. 1991. *Ilmu Makanan Ternak Dasar*. Gadjah Mada University Press. Yogyakarta.
- Tilman, A.D., Reksohardiprojo, S dan Lebdoesoekojo. 2005. *Ilmu Makanan Ternak Dasar*. Gadjah Mada University Press. Yogyakarta.
- Tiya, NAD., Akramullah, M., Badaruddin, R., and Citrawati, GAO. 2022. The percentage of carcass, carcass parts, and abdominal fat of broiler chickens at different slaughter ages. *Journal of Tropical Animal and Veterinary Science*. 12(2): 184-190.
- Uguru, O., Amah, UJ., Umeron, EP., Unigwe, CR., Obinna-Echem, PC., onainor, ER., Torhemen ,M and Uchei, CC .2022. Carcass traits, nutrient composition and sensory properties of broiler chicken feed diets containing grade levels of fermented cassava. *Nigerian Journal of Animal Production*, 49(1): 268-283.
- Ulfa, D, suyatno, A, and Dewi, YSK. 2021. pola dan kinerja kemitraan pada usaha peternakan ayam broiler dikabupaten kubu raya Kalimantan barat. *Analisis kebijakan pertanian*, 19(2): 67-77.
- Umam, AAC. 2012. Hematologi Malondealdehida Plasma Darah, dan Bobot Organ Limfoid Broiler yang Diberi Ransum Mengandung Biji Ketumbar (*Coriandrum sativum* L.). Fakultas Peternakan. Institut Pertanian Bogor, Bogor. (Skripsi)
- Widodo, AR. Setiaawan, H., Sudiyono., Sudiba and Inreswari, R. 2013. Digestibility of nutrient and performance of male quail wee given tofu waste fermented in the diet. *Tropical Animal Husbandry*, 2(1): 51-57.

- Xia, Y., Miao, J., Zhang, Y., Zhang, H., Kong, L., Seviour, L and Kong, N. 2021. Dietary inulin supplementation modulates the composition and activities of carbohydrate-metabolizing organisms in the cecal microbiota of broiler chickens. *PLoS ONE*, 16(10): e0258663.
- Yang, HM., Wang, W., Wang, ZY., Wang, J., Cao, YJ dan Chen, YH. 2013. Comparative study of intestine length, weight and digestibility on different body weight chickens. *Afric. J. Biotechnol.* 12(32): 5097 – 5100.
- Zairiful, Z., Sofiana, A., & Maghfiroh, K. 2018. Pengaruh Penggunaan Sinbiotik Bakteri Asam Laktat dan Daun Cincau terhadap Performa Broiler. In *Prosiding Seminar Nasional Pengembangan Teknologi Per tanian*.