

REFERENCES

- Abd El-Latif, S.A. Faten A. Ahmed and El-Kaiaty, A.M. (2002). Effect of feeding dietary Thyme, Black Cumin, Dianthus and Fennel on productive and some metabolic responses of growing Japanese quail. *Egypt. Poult. Sci.*, 22(1):109-125.
- Alcicek, A., M. Bozkurt and M. Cabuk, 2004. The effects of a mixture of herbal essential oil, an organic acid or a probiotic on broiler performance. *South Afr. J. Anim. Sci.*, 34: 217-222.
- Asmaa Taha Yaseen Ali. 2008. Effect of Drug Free Feeding Programs on Growth Performance, Intestinal Morphology and Carcass Quality of Broiler Chick.
- Alp, M., Kahraman, R., Kocaba li. N., Eren, M. & enel, S.H., 1993. The effects of lactiferm-15 and some antibiotics on performance, abdominal fat, intestinal tract weight and blood cholesterol levels of broilers. *Vet. J. Istanbul Univ.* 19, 145-157. (Turkish with English summary).
- Anonymous. 2012. Broiler. <http://en.wikipedia.org/wiki/Broiler>. 3rd December, 2012.
- Aviagen. 2012. Welcome to Arbor Acres. <http://en.aviagen.com/arbor-acres/>. 2nd December, 2012.
- B. W. WOLF K. A. GARLEBt. D. G. ATAYA and I. A. CASASS. 1995. Safety and Tolerance of *Lactobacillus reuteri* in Healthy Adult Male Subjects. *MICROBIAL ECOLOGY IN HEALTH AND DISEASE*. VOL.8: 41-50
- Baidya, N., L. Mandal and G.C. Banerjee, 1993. Efficiency of feeding antibiotic and probiotics in broilers. *J. Vet. and Anim. Sci.*, 24: 120-124.
- Becker WA, Spencer JV, Mirosh LW and Verstrate JA (1981). Abdominal and carcass fat in five broiler strains. *Poult. Sci.* 60: 693-697.
- Bhatta, R., Krishnamoorthy, Mohamed. 2001. Effect of tamarind seed husk tannins on *in vitro* rumen fermentation. *Animal Feed Science and Technology*. 90(3/4):143-152.
- Bhattacharrya, Bal, Mukherji. 1994. Studies on the characteristics of some products from tamarind kernel. *Journal of Food Science and Technology*. India. 31(5):372-376.
- Bozkurt, M., K. Kucukyılmaz, A.U. Catli and M. Cinar, 2005. Growth performance and carcass yield of broiler chickens given antibiotic, mannan oligosaccharide and dextran oligosaccharide supplemented diets. *Proceedings of the 21st Annual Symposium on Nutritional Biotechnology in the Feed and Food Industries*, May 22-25, 2005, Lexington, Kentucky, USA., pp: 69-69.

Chambers JR (1990). Genetics of growth and meat production in chickens. In: Poultry breeding and genetics (Crawford RD, ed.). Elsevier Science Publishers B.V., Amsterdam, Netherlands, pp. 599-643.

Chaisakdanugull, C., K. Sriroth. 2005. Characterization of oligosaccharide from tamarind kernel powder. Faculty of Biotechnology, Rangsit University.

Cummings, J.H., and Macfarlane, G.T., 2002. Gastrointestinal effects of prebiotics. *British Journal of Nutrition* 87S,145-151.

Chaisakdanugull, C. and K. Sriroth. 2005. Characterization of oligosaccharide from tamarind kernel powder. Journal of Research. Pathumthanee: Dept. of Food Technology, Faculty of Biotechnology, Rangsit University.

Denli, M., F. Okan and K. Celik, 2003. Effect of dietary probiotic, organic acid and antibiotic supplementation to diets on broiler growth performance and carcass yield. *Pak. J. Nutr.*, 2: 89-91.

F.Gaggìa, Paola Mattarelli and, Bruno Biavati. 2010. Probiotics and prebiotics in animal feeding for safe food production. *International Journal of Food Microbiology* 141 : S15–S28

Falaki M, Shamsshargh M, Dastar B, Zrehdaran S (2010). Effect of different levels of probiotic and prebiotic on performance and carcass characteristics of broiler chickens. *J. Anim. Vet. Adv.*, 9(18):2390-2395.

FAO/WHO, 2002. Joint FAO/WHO (Food and Agriculture Organization/World Health Organization) working group report on drafting guidelines for the evaluation of probiotics in food. London, Ontario, Canada. guidelines for the evaluation of probiotics in food. Joint working group report on drafting. London, Ontario, 2002:1–11.

Fioramonti, J., V. Theodorou and L. Bueno, 2003. Probiotics and their effect on gut physiology. *Best Pract. Res. Clin. Gastroenterol.*, 17: 711-24.

Fuller, R., 1989. Probiotics in man and animals. *J. Appl. Bacteriol.*, 66: 365-378.

Fuller, R., 2000. The Chicken Gut Microflora and Probiotic Supplements. *J. Poul. Sci.*, 38: 189-196.

Gibson, G. R. and Roberfroid, M. B. 1995. Dietary modulation of the human colonic microflora introducing the concept of probiotics. *Journal of Nutrition* 125: 1401-1412.

- Gibson, G.R. and R. Fuller, 2000. Aspects of in vitro and in vivo research approaches directed toward identifying probiotics and prebiotics for human use. *J. Nutr.*, 130: 391-395.
- Gill, C. 2001. Safe and sustainable feed ingredients. *Feed Int.* 22 (3), 40-45.
- Gill, H.S., 2003. Probiotics to enhance anti-infective defences in the gastrointestinal tract. *Best Practice and Research Clinical Gastroenterology* 17, 755-773.
- Gohain, A.K. & Sapkota, D., 1998. Effect of probiotic feeding on the performance of broilers. *Indian J. Poult. Sci.* 33, 101-105.
- Havenaar, R. and S. Spanhaak, 1994. Probiotics from an immunological point of view. *Curr. Opin. Biotechnol.*, 5: 320-5.
- Havenstein GB, Ferket PR, Scheideler SE and Rives DV (1994). Carcass composition and yield of 1991 vs 1957 broilers when fed "typical" 1957 and 1991 broiler diets. *Poult. Sci.* 73: 1795-1804.
- Hertrampf, J.W., 2001. Alternative antibacterial performance promoters. *Poult. Int.* 40, 50-52.
- Huang, M.K., Y.J. Choi, R. Houde, J.W. Lee, B. Lee, X. Zhao. 2004. Effects of *Lactobacilli* and an *Acidophilic fungus* on the production performance and immune responses in broiler chickens. *Poultry Science.* 83: 788-795.
- Hooper, L.V., Midtvedt, T., Gordon, J.I., 2002. How host-microbial interactions shape the nutrient environment of the mammalian intestine. *Annual Review of Nutrition* 22,283-307.
- Jackson, S., Summers, J. D. & Leeson, S. (1982b). *Poultry Science* 61, 2232-2240.
- Jackson, S., Summers, J. D. & Leeson, S. (1982a). *Poultry Science* 61, 2224-2231.
- Jin, L.Z., Ho, Y.W., Abdullah, N., Ali, M.A. & Jalaludin, S., 1998. Effects of adherent *Lactobacillus* cultures on growth, weight of organs and intestinal microflora and volatile fatty acids in broilers. *Anim. Feed Sci.* 70, 197-209.
- Kabir, S.M.L., M.M Rahman, M.B. Rahman, S.U, Ahmed. 2004. The dynamics of probiotics on growth performance and immune response in broilers. *Poultry Science.* 3: 361-364.

- Kaitho, R., Nsahlai, Williams, Ummuna, Tamminga, Bruchem. 1998. Relationships between preference, rumen degradability, gas production and chemical properties of browses. *Agroforestry systems*. 39: 129-144.
- Kempster, A.J., Cuthberston, A. and Harrington, G. 1982. The relationship between conformation and the yield and distribution of lean meat in the carcasses of British pigs, cattle and sheep: a review. *Meat Science* 6: 37–53.
- Kessler AM, Snizek Jr PN and Brugalli I (2000). Manipulação da quantidade de gordura na carcaça de frangos. In: *Anais da Conferência APINCO de Ciência e Tecnologia Avícolas*. APINCO, Campinas,SP, Brazil, pp. 107-133.
- Khan, M.L., Ulah, I. & Javed, M.T., 1992. Comparative study of probiotics, tm. 50 biovin-40 and albac on the performance of broiler chicks. *Pakistan Vet. J.* 12, 145-157.
- Kocher, A., 2005. AGP alternatives- part IV. Poultry production without AGPs- Challenges and solutions. *World Poultry* 21 (9), 32-33.
- Kumar, K., Sethuraman. 2000. Aricanut fibre and tamarind seed coat as raw material for vanish preparation. *Bulletin of Electrochemistry*. 16(6): 264-266.
- L.G. Gaya *et al.* 2005. Genetic trends of abdominal fat content in a male broiler chicken line. *Genet. Mol. Res.* 4 (4): 760-764
- Lan, P.T., T.L. Binh and Y. Benno, 2003. Impact of two probiotics *Lactobacillus* strains feeding on fecal *Lactobacilli* and weight gains in chickens. *J. Gen. Appl. Microbiol.*, 49: 29-36.
- Linge, P., 2005. The use of probiotics and yeast derivates in India. *World Poult.* 21 (10), 12-15.
- Maiorka A, Santin E, Sugeta SM, Almeida JC, Macari M. Utilização de prebióticos, probióticos ou simbióticos em dietas para frangos. *Revista Brasileira de Ciência Avícola* 2001; 3(1):75-82.
- Mahajan, P., J. Sahoo, P.C. Panda. 1999. Effects of probiotic feeding and seasons on the growth performance and carcass quality of broilers. *Poultry Science*. 34: 167-176.
- Mazmanian, S.K., Round, J.L., Kasper, D., 2008. A microbial symbiosis factor prevents inflammatory disease. *Nature* 453, 620–625.
- Mellor, S., 2000. Nutraceuticals–alternatives to antibiotics. *World Poultry* 16 (2), 30-33.

Michelan Filho T (1986). Seleção para diminuição do conteúdo de gordura em frangos. EMBRAPACNPSA, Concórdia, SC, Brazil.

Midilli, M. & Tuncer, .D., 2001. The effects of enzyme and probiotic supplementation to diets on broiler performance. Turk. J. Vet. Anim. Sci. 25, 895-903. (Turkish with English summary).

Moreira J, Mendes AA, Garcia EA, Garcia RG, Almeida ICL, Jr. JCG. Efeito do uso do probiótico sobre o desempenho e rendimento de carcaça em frangos de corte. In: Anais da 38ª Reunião Anual da Sociedade Brasileira de Zootecnia; 2001; Piracicaba:SBZ, p.852-854.

Mountney, G.J. 1976. Poultry Products Technology. 2nd ed. Westport Connecticut: The Avi Publishing Co, Inc.

Muchtadi, T. R. & Sugiyono. 1992. Petunjuk Laboratorium: Ilmu Pengetahuan Bahan Pangan. Departemen Pendidikan dan Kebudayaan Direktorat Jenderal Pendidikan Tinggi Pusat Antar Universitas Pangan dan Gizi. Institut Pertanian Bogor, Bogor

Nayebpor M, Farhomand P, Hashemi A (2007). Effect of different levels of direct fed microbial (primalac) on the growth performance and humoral immune response in broiler chicken. J. Anim. Vet. Adv. 6:1308-1313.

Öztürk, E. & Yıldırım, A., 2005. Prebiotics supplementation to the diets broiler on performance and intestinal microbiological characteristics. III. Nat. Anim. Nutr. Congr. 69-75. (Turkish with English summary).

Panda, A. K., Ramarao, S. V., Reddy, M. R. and Praharaj, N. K., 1999. Effect of dietary inclusion of probiotic on growth, carcass traits and immune response in broilers. *Indian Journal of Poultry Science*, 34, 343-346.

Panda, A.K., Raju, M.V.L.N., Rama Rao, S.V., Sharma, S.R., 2005. The influence of supplementation of lactobacillus sporogenes on the performance of broilers. *Indian Journal of Animal Nutrition*, 22(1), 37-40

Panda, A.K., Reddy, M.R. & Praharaj, N.K., 2001. Dietary supplementation of probiotic on serum cholesterol and gut microflora of broilers. *Indian J. Anim. Sci.* 71 (5), 488-490.

Panigrahi, S., Bland, Carlaw. 1989. Nutritive value of tamarind for broiler chicks. *Journal of Animal Feed Science and Technology.* 22(4):285-293.

- Piray, A.H., Kermanshahi, H., Tahmasbi, A.M. & Bahrapour, J., 2007. Effects of cecal cultures and aspergillus meal prebiotic (fermacto) on growth performance and organ weights of broiler chickens. *Int. J. Poult. Sci.* 6, 340-344.
- Plail, R., 2006. The innovative power of probiotics. *Poult Int.* 45 (6), 34-3
- Rolfe, R.D., 2000. The role of probiotic cultures in the control of gastrointestinal health. *J. Nutr.*, 130: 396-402.
- Safalaoh, A.C.L., 2006. Body weight gain, dressing percentage, abdominal fat and serum cholesterol of broilers supplemented with a microbial preparation. *African. J. Food. Agric. Nutr.* 6, 1-10.
- Salminen, S., Isolauri, E., Salminen, E., 1996. Clinical uses of probiotics for stabilizing the gut mucosal barrier: successful strains and future challenges. *Antonie van Leeuwenhoek* 70, 347–358.
- Salzman, N.H., Ghosh, D., Huttner, K.M., Paterson, Y., Bevins, C.L., 2003. Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin. *Nature* 422, 522–526.
- Sanchez, R. & Ayaya, J.A., 1998. Effect of MOS on broiler of performance under field conditions. Alltech's INC. July. 16.
- Scantlebury-Manning, T., Gibson, G.R., 2004. Prebiotics. *Best Practice and Research Clinical Gastroenterology* 18, 287–298.
- Shane, S., 2005. Antibiotic alternatives in turkey production. *World Poult.*, 19: 14-15.
- Shabani *et al.* The Effect of Probiotics on Growth Performance of Broilers. *Annals of Biological Research*, 3 (12):5450-5452. 2012.
- Silva, E.N., A.S. Teixeira, A.G. Bertechini, C.L. Ferreira and B.G. Ventura, 2000. *Ciencia e Agrotecnologia*. 24: Ed. Especial, 224-232.
- Sims, M.D. & Sefton, A.E., 1999. Comparative effects of a manan oligosaccharide and an antibiotic growth promoter on performance of commercial tom turkeys. 48th Western Poultry Disease Conf., Vancouver, Canada. 1999; 78-82.
- T.Srikhun, W.Aengwanich and W.Kongbuntad. 2010. Effects of polyphenols extracted from tamarind seed coat on body weight, white blood cells, bursa of fabricius and NDP-HI titer of broilers under chronic heat stress. *Poultry Sci.* 9 (10):988-995.

- Torres-Rodriguez, A., A.M. Donoghue, D.J. Donoghue, J.T. Barton, G. Tellez, B.M. Hargis. 2007. Performance and condemnation rate analysis of commercial turkey flocks treated with a *Lactobacillus spp.* based probiotic. *Poultry Science*. 86: 444-446.
- Talarico, T. L., I. A. Casas, T. C. Chung, and W. J. Dobrogosz, 1988. Production and isolation of reuterin, a growth inhibitor produced by *Lactobacillus reuteri*. *Antimicrob. Agents Chemother.* 32:1854–1858.
- Vargas Jr. JG, Toledo RS, Albino LFT, Rostagno HS, Oliveira JE, Carvalho DCO. Características de carcaça de frango de corte, submetidos a rações contendo probióticos, prebióticos e antibióticos. In: Anais da 39a Reunião Anual da Sociedade Brasileira de Zootecnia; 2002; Recife: SBZ, 2002. CD-ROM.
- Visek, W.J., 1978. The mode of growth promotion by antibiotics. *J. Anim. Sci.*, 46: 1447-1469.
- Vladimirova L., S. Sourdjiyska. 1996. Test on the effect from adding probiotics to the combined feeds for chicks. *Animal Science*. 3: 36-39.
- Waldroup, P.W., C.A. Fritts and F. Yan, 2003. Utilization of Bio-Mos[®] mannan oligosaccharide and Bioplex[®] copper in broiler diets. *Int. J. Poult. Sci.*, 2: 44-52.
- Wenk, C., 2000. Recent advances in animal feed additives such as metabolic modifiers, antimicrobial agents, probiotics, enzymes and highly available minerals. *Review. Asian-Aust. J. Anim. Sci.* 13: 86-95.