

DAFTAR PUSTAKA

- Alfarabi, M. 2010. Kajian Antideabetogenik Daun Sirih Merah (*Piper crocatum*) *In Vitro*. Tesis. Program Pascasarjana. Institut Pertanian Bogor.
- Aluwong, T., P.A. Wuyep, and L. Allam. 2011. Livestock-environment interactions : methane emissions from ruminants. *African J. Biotechnology*. 10(8): 1265-1269.
- Berger, L. M., S. Wein, R. Blank, C. C. Metges, and S. Wolfram. Bioavailability of the flavonol quercetin in cows after intraruminal application of quercetin aglycone and rutin. *J. Dairy Sci.* 95 :5047–5055
- Bocazzi, P and J.A. Patterson. 1995. Potential For Functional Replacement of Methanogenic Bacteria by Acetogenic Bacteria in The Rumen Environment. *IV th International Symposium on the nutrition of Herbivores*, Sept, 16-17. Clermont-Ferrand. France.
- Busquet, M., S. Calsamiglia, A. Ferret, C. Kamel, and W. Cardozo. 2006. Plant extracts affect in vitro rumen microbial fermentation. *Journal Dairy Science* 89 : 761-771.
- Cushnie, T. P. T. and A. J. Lamb, 2005. Antimicrobial activity of flavonoids. *International Journal of Antimicrobial Agents* 26 (5) :343–356.
- Cieslak, A., M. Szumacher-Strabel, A. Stochmal and W. Oleszek. 2013. Plant components with specific activities against rumen methanogens. *Animal* ., pp 253–265.
- Fadlilah, M. 2015. Benefit Of Red Betel (*Piper crocatum* Ruiz & Pav.) As Antibiotics. *Journal Majority*. 4(3): 71-75.
- Haryanto, B. 2009. Inovasi teknologi Pakan Ternak dalam Sistem Integrasi Tanaman-Ternak Bebas Limbah Mendukung Upaya Peningkatan Produksi Daging. *Pengembangan Inovasi Pertanian* 2(3), 2009 :163-176.
- Kamalak, A., O. Canbolat, Y. Gurbuz, O. Ozay, C.O. Ozkan and M. Sakarya. 2004. Chemical composition and in vitro gas production characteristic of several tannin containing tree leaves. *Livest. Res. Rural Dev.* 16: Article
- Kanifah, U. dan M. Lutfi, B. Susilo. 2015. Karakterisasi Ekstrak Daun Sirih Merah (*Piper crocatum*) Dengan Metode Ekstraksi Non-Thermal Berbantuan Ultrasonik (Kajian Perbandingan Jenis Pelarut Dan Lama Ekstraksi). *Jurnal Bioproses Komoditas Tropis* 3(1):73-79.

- Kim, E. T., L. L. Guan, S. J. Lee, S. M. Lee, S.S. Lee, D. Lee, S. K. Lee, and S. S. Lee. 2012. Effects of Flavonoid-rich Plant Extracts on *In vitro* Ruminant Methanogenesis, Microbial Populations and Fermentation Characteristics. *Asian Australas* 28:530-537.
- Lopez, S. 2005. In vitro and In situ techniques for estimating digestibility. Dalam J. Dijkstra, J. M. Forbes, and J. France (Eds). *Quantitative Aspect of Ruminant Digestion and Metabolism*. 2nd Edition. ISBN 0-85199-8143. CABI Publishing, London.
- Martin ,C. , D. P. Morgavi and M. Doreau. 2010. Methane mitigation in ruminants: from microbe to the farm scale. *Journal Animal* 4 (3): 351–365.
- Mueller-Harvey, I., 2006. Unravelling the conundrum of tannins in animal nutrition and health. *J. Sci. Food Agric.* 86, 2010–2037
- Orskov ER and M Ryle. 1990. *Energy nutrition in ruminant*. Els Appl Sci. London.
- Pell, A.NND.J.R. Cherney and J.S. Jones. 1993. Technical note: Forage InVitro Dry Matter Digestibility as influenced by Fibre Source in TheDonor Cow Diet. *Journal Animal Sci.*
- Prayitno, C.H., N. Hidayat. 2013. Efficacy of Methanol Extract of Garlic (*Allium Sativum*) to improve Rumen fermentation Products. *Journal Animal Production* 15 (1) : 67-75.
- Puzi, W.S., Y. Lukmayani, Undang A Dasuki. 2015. Isolasi dan Identifikasi Senyawa Flavonoid dari Daun Tumbuhan Sirih Merah (*Piper Croatum Ruiz & Pav*). *Prosiding Penelitian SPeSIA*. UNISBA.
- Safithri, M., F. Fahma, dan P.W. N. Marlina. 2012^b. Analisis Proksimat Dan Toksisitas Akut Ekstrak Daun Sirih Merah Yang Berpotensi Sebagai Antidiabetes. *Jurnal Gizi dan Pangan*. 7(1): 43-48.
- Sahakian A.S., Sam-Ryong Jee, and M. Pimentel. 2009. Methane and the gastrointestinal tract. *Review. Dig Dis Sci*.Springer.
- Sajati, G. 2012. Pengaruh Ekstrusi dan Proteksi dengan Tanin pada Tepung Kedelai Terhadap Produksi Gas Total gan Metan Secara In Vitro. *Indonesian Jurnal Of Food Technology* 1 (1) : 241 – 256.
- Sirohi, S.K., Pandey, N., Singh, B., Puniya, A. 2010, Rumen Methanogens : a Review. *Indian Journal of microbiology*, 50 (3) : 253-262. Doi: 10.1007/S12088-010-0061-6.

- Steel, R.G.D and J.H, Torrie. 1980. *Principles and Procedures of Statistics*. Second Ed. McGraw-Hill Kogakusha Ltd.
- Suryahadi, N A.R., A. Bey, dan R. Boer. 2002. Laju Konversi Metan dan Factor Emisi Metan pada Kerbau yang Diberi Ragi Tape Lokal yang Berbeda Kadarnya yang Mengandung *Saccharomyces cerevisiae*. Ringkasan Seminar Program Pascasarjana IPB. Bogor.
- Tanuwiria, U.H., E.Nurdin dan S.Wira. 2012. Produksi Gas Total dan Methan sebagai Dampak Pemberian Ransum yang Diberi Imbuhan Kunyit Putih, Kunyit Mangga, dan Jinten pada Berbagai Level Zn-Cu Organik (in vitro). Semnas peternakan Berkelanjutan III. Universitas Padjadjaran. Bandung.
- Thalib, A. and Y. Widawati. 2008. Effect of *Acetoanaerobium noterae* bacteria addition in the doet on methan production and performance of sheep. *JITV*. 13 (4) : 273 – 278.
- Tjandraatmadja, M. 1981. Anaerobic Digestion of Fibrous Materials. A Thesis of Master of Agricultural Science. University of Melbourne, Australia.
- Wuebbles, D.J. and K. Hayhoe. 2002. Atmospheric Methane and Global Change. *Earth-Sci. Rev.* 57 :177-210.
- Zubier, F., K. Bramono, S. Widaty, H. Nilasari, M. Louisa, dan Y. Rosana. 2010. Efikasi Sabun Ekstrak Sirih Merah dalam Mengurangi Gejala Keputihan Fisiologis. *Majalah Kedokteran Indonesia* 60 (1):9-14.