

DAFTAR PUSTAKA

- Abubakar, M., A. A. Ibrahim., M. S. Ibrahim., and S. I. Karaye. 2026. Species and breed-dependent differences in saturated and unsaturated fatty acids of ruminant milk. *International Journal of Science and Research Archive*, 19(01), 596-602.
- Akbar, R. R., H. Indrijani., and L. B. Salman. 2019. Analisis Perbandingan Performa Reproduksi Kambing Saanen Dan Peranakan Etawa (Kasus Di Bbptu-Hpt Baturraden) *Reproduction of Saanen and Peranakan Etawa Goat Performance Comparative Analysis (Case Study at BBPTU-H. JANHUS Jurnal Ilmu Peternakan Journal of Animal Husbandry*. 27–32.
- Akshit, F., T. Mao., R. Kaushik., V. Poswal., and G.K. Deshwal. 2024. Global comprehensive review and meta-analysis of goat milk composition by location, publication year and lactation stage. *Jurnal Komposisi dan Analisis Pangan* .127.
- Alkaisy, Q. H., J. S. Al-Saadi., A. K. J. Al-Rikabi., A. B., Altemimi., M. A. Hesarinejad., and T. G. Abedelmaksoud. 2023. Exploring the health benefits and functional properties of goat milk proteins. *Food Science and Nutrition*, 11(10), 5641–5656.
- Ariyanto, B. F., W. T. Nugraha., and D. Suhendra. 2021. Identifikasi Lokasi dan Performa Fisik Kambing Perah di Desa Mranggen Kecamatan Srumbung Kabupaten Magelang Provinsi Jawa Tengah. *Buletin Peternakan Tropis*, 2(2), 98–102.
- Ausi, Y., dan M. I. Barliana. 2016. Artikel Review: Kandungan Dan Aktivitas Farmakologi Minyak Biji Semangka (*Citrullus Lanatus*). *Farmaka*, 14(2), 273–280.
- Bauman, D. E. and C. L. Davis. 1974. Biosynthesis of milk fat. In *Lactation: a comprehensive treatise*, vol. 2 (ed. BL Larson and VR Smith), pp. 31–75. Academic Press, Inc., New York. Bauman
- Bondoc, O., N. A. Del Rosario., L. L. G. M. Del Rosario., and D. N. Ramirez. 2023. Fatty Acid Composition and Nutritional Indices/Ratios of Colostrum and Milk from Crossbred Goats in the Philippines. *Tropical Animal Science Journal*, 46(2), 239-247.
- Boumediene, F., A. Meribai., A. Kahlouche., M. Bouchibane., N.Touzout., and S. Belbraouet. 2025. Effects of Breed and Lactation-stage of Goat on the Composition and Lipid Fraction of Milk in Algeria. *Asian Journal of Dairy and Food Research*, 44(Of), 505–510.

- Candraningrat., I. D. A. A. Diva., A. A. G. J. Santika., I. A. M. S. Dharmayanti., and P. W. Prayascita. 2021. Review Kemampuan Metode Gc-MS Dalam Identifikasi Flunitrazepam Terkait Dengan Aspek Forensik Dan Klinik. *Jurnal Kimia*, 15(1), 12.
- Chilliard, Y., A. Ferlay., R. M. Mansbridge., and M. Doreau. 2000. The ruminant loss a supplier of fatty acids for human consumption. *Ann. Zootech* 43:181-205.
- Chilliard, Y., A. Ferlay., J. Rouel., and G. Lamberet. 2003. A review of nutritional and physiological factors affecting goat milk lipid synthesis and lipolysis. *Journal of Dairy Science*, 86(5), 1751–1770.
- Chilliard Y., J. Rouel., A. Ferlay., L. Bernard., P. Gaborit., K. Raynal-Ljutovac., A. Lauret., C. Leroux. 2006. *Optimising Goat's Milk and Cheese Fatty Acid Composition*. Elsevier; Amsterdam, The Netherlands. pp. 281–312.
- Christi, R. F. 2019. Karakteristik Ukuran Tubuh Kambing Peranakan Ettawa Pada Periode Dara dan Laktasi 1 Di Kelompok P4S Agribisnis Assalam Indihiang Kabupaten Tasikmalaya. *Jurnal Sains Peternakan*, 7(2), 122–127.
- Clark, S., and M.B. Mora García. 2017. A 100-Year Review: Advances in goat milk research. *Journal of Dairy Science*, 100(12), 10026–10044.
- Curro, S., C. L. Manuelian., M. De Marchi., S. Claps., D. Rufrano., and G. Neglia. 2019. Effects of breed and stage of lactation on milk fatty acid composition of Italian goat breeds. *Animals*, 9(10), 1–16.
- Fan, R., W. Zhang., X. Zhao., Z. Ji., Q. Du., R. Han., J. Wang., and Y. Yang. 2023. Changes in milk fat globule physical properties and milk fatty acid composition throughout the lactation cycle of Laoshan goat. *Journal of Animal Science*, 101(January), 1–9.
- Ferlay, A., F. Glasser., B. Martin., D. Andueza., and Y. Chilliard. 2011. Effects of Feeding Factors and Breed on Cow Milk Fatty Acid Composition: Recent Data. *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Agriculture*, 68(2), 137–145.
- Folch, J., M. Lees., and G. H. Sloane Stanley. 1957. A simple method for the isolation and purification of total lipides from animal tissues. *The Journal of biological chemistry*, 226(1), 497–509.
- French, E. A., S. J. Bertics., and L. E. Armentano. 2012. Rumen and milk odd- and branched-chain fatty acid proportions are minimally influenced by ruminal volatile fatty acid infusions. *Journal of Dairy Science*, 95(4), 2015–2026.

- Frigolet, M. E., and R. G. Aguilar. 2017. The Role of the Novel Lipokine Palmitoleic Acid in. 8(20).
- Griinari JM., DE Bauman, LH Baumgard, and BA Corl. 2000. Biosintesis asam linoleat terkonjugasi pada ruminansia, *Journal of Animal Science* , Volume 77, Edisi suppl_E, Halaman 1–15
- Harvatine, K. J., Y. R. Boisclair and D.E. Bauman. 2009. Recent advances in the regulation of milk fat synthesis. *Animal, The International Journal of Animal Biosciences*, 3(1), 40–54.
- Hayam, M. A., F. A. M. Hassan., M. A. M., A. E. G. and A. K. Enab. 2014. Physico-chemical characteristics of goat and sheep milk. *Small Ruminant Research*, 68(1–2), 88–113.
- Kalyankar, S. D., C. D. Khedkar, and A. M. Patil. 2016. Goat Milk in *Encyclopedia of Food and Health*. Elsevier Inc., Amsterdam, the Netherlands. Pages 256–260
- Kaskous, S., and M. W Pfaffl. 2025. Importance of goat milk for human health and nutrition. *Food Nutrition Chemistry*, 3(1), 285.
- Kupczyński, R., K. Pacyga., K. Lewandowska., M. Bednarski., and A. Szumny. 2024. Milk Odd- and Branched-Chain Fatty Acids as Biomarkers of Rumen Fermentation. *Animals* , 14 (11), 1706.
- Laryska, N., dan T. Nurhajati. 2013. Peningkatan Kadar Lemak Susu Sapi Perah Dengan Pemberian Pakan Konsentrat Komersial Dibandingkan Dengan Ampas Tahu. 28(1), 8–14.
- Lee, J., and N. D. Ridgway. 2020. Substrate channeling in the glycerol-3-phosphate pathway regulates the synthesis, storage and secretion of glycerolipids. *Biochimica Et Biophysica Acta-Molecular and Cell Biology of Lipids*, 1865.
- Liu, K., Y. Li., G. Luo., H. Xin., Y. Zhang., and G. Li. 2019. Relations of Ruminant Fermentation Parameters and Microbial Matters to Odd- and Branched-Chain Fatty Acids in Rumen Fluid of Dairy Cows at Different Milk Stages. *Animals : an open access journal from MDPI*, 9(12), 1019.
- Mahardika, H. A., P. Trisunuwati., dan P. Surjowardojo. 2016. Pengaruh Suhu Air Pencucian Ambing dan Treat Dipping Terhadap Jumlah Produksi, Kualitas dan Jumlah Sel Somatik Susu Pada Sapi Peranakan Friesian Holstein. *Buletin Peternakan*. 40(1): 11–20.

- Marcinkoniene, L., and I. Ciprovica. 2023. Fatty Acid Composition of Different Breed Goat Milk. *Rural Sustainability Research*, 49(344), 35–39.
- Martínez, Y. B., J. A. Maldonado., J. F. Orzuna., P. B. Arenas., and L. D. Granados-Rivera. 2025. Palmitic Acid in the Diet of Dairy Goats and Its Effect on Physicochemical Characteristics and Fatty Acid Profile of Goat Kid Meat. *Animal Science Journal Nihon Chikusan Gakkaiho*, 96(1), e70030.
- Mierlita, D., S., and D.I. Struti. 2023. Effects of Hemp Seed on the Production , Fatty Acid Profile , and Antioxidant Capacity of Milk from Goats Fed Hay or a Mixed Shrubs – Grass Rangeland.
- Miller, B. A., and C. D. Lu. 2019. Current status of global dairy goat production : an overview. *Asian-Australas J Anim Sci* 32:1219-1232, 32(8), 1219–1232.
- Muñoz, F., H. M. Andrade-Montemayor., K. D. L. Torre., V. M.A. Duarte., and J.C. Silva-Jarquín. 2022. Comparative Analysis of the Protein Composition of Goat Milk from French Alpine, Nubian, and Creole Breeds and Holstein Friesian Cow Milk: Implications for Early Infant Nutrition. *Animals*, 12(17).
- Mykhalko, O., O. Kyselov., V. Opara., and V. Lykhach. 2024. The Influence of Breed on the Fatty Acid Composition of Goat Milk and the Relationship between Breed and Seasonal Temperature with Milk Yield. 82(2), 57–69.
- Nantapo, C. T. W., V. Muchenje., and A. Hugo. 2014. Atherogenicity index and health-related fatty acids in different stages of lactation from Friesian, Jersey and Friesian×Jersey cross cow milk under a pasture-based dairy system. *Food Chemistry*, 146, 127–133.
- Nasution, F. H. 2019. *Panduan Lengkap Dan Praktis Budidaya Kambing Yang Paling Menguntungkan*.
- Nelson, N. K., K. Sivasabari., J. Ankitha Indu., D. Krishnan., M. R. Anjali., P. R. Akhil., M. Pran., F. Nainu., S.V. Praveen., P. Singh., H. Chopra., S. Chakraborty., A. Dey., K. Dhama., and D. Chandran. 2023. Beneficial impacts of goat milk on the nutritional status and general well-being of human beings: Anecdotal evidence. *Journal of Experimental Biology and Agricultural Sciences*, 11(1), 1–15.
- Ramírez, B. J. E., J.N. Álvarez., M. Y. Bautista., and A. G. Ruiz. 2025. Palmitic acid supplementation enhances milk fat synthesis and energy balance without altering intake or yield in lactating goats. 18, 3670–3683.
- Raguati, R., A. Afzalani., Z. Elymaizar., and I. Sulaksana. 2024. Short and Medium-chain Fatty Acid Profile of Goat Milk Fed with Pineapple Peel Silage. 139–144.

- Rodríguez, A. L. M., M. P.G. Castro., L. L. Pimentel., and J. Fontecha., 2017. Milk fat components with potential anticancer activity-a review. *Bioscience Reports*, 37(6).
- Rusdiana, S., L. Praharani., dan S. Sumanto. 2015. Kualitas Dan Produktivitas Susu Kambing Perah Persilangan Di Indonesia. *Jurnal Penelitian Dan Pengembangan Pertanian*, 34(2), 79.
- Sarwono, B. 2011. *Beternak Kambing Unggul*. Penebar Swadaya.
- Silalahi, J., dan S. Nurbaya. 2011. Komposisi , Distribusi dan Sifat Aterogenik Asam Lemak dalam. November, 453–457.
- Silanikove, N., G. Leitner., U. Merin., and C. G. Prosser. 2010. Recent advances in exploiting goat's milk: Quality, safety and production aspects. *Small Ruminant Research*, 89(2–3), 110–124.
- Sudrajat, A., D. M. Saleh., E. A. Rimbawanto., dan R. F. Christi. 2021. Produksi dan Kualitas Susu Sapi Friesian Holstein (FH) di Kpbs Pangalengan Kabupaten Bandung. *TERNAK TROPIKA Journal of Tropical Animal Production*, 22(1), 42-51.
- Talpur, F. N., M. I. Bhanger., and N. N. Memon. 2009. Milk fatty acid composition of indigenous goat and ewe breeds from Sindh, Pakistan. *Journal of Food Composition and Analysis*, 22(1), 59–64.
- Tasee, A. M., dan R. Aka. 2014. Asam lemak trans (trans-C18:1) dalam susu kambing. *Jurnal Ilmu-Ilmu Peternakan*, 24(1), 26–32.
- Thai Agricultural Standard. 2008. TAS 6006- 2008 Raw Goat Milk. National Bureau of Agricultural Commodity and Food Standards, Ministry of Agriculture and Cooperatives. Bangkok Thailand.pp1-8.
- Tian, H., H. Niu., J. Luo., W. Yao., X. Chen., J. Wu., Y. Geng., W. Gao., A. Lei., Z. Gao., X. Tian., X. Zhao., H. Shi., C. Li., and J. Hua. 2022. Knockout of Stearoyl-CoA Desaturase 1 Decreased Milk Fat and Unsaturated Fatty Acid Contents of the Goat Model Generated by CRISPR/Cas9. *Journal of Agricultural and Food Chemistry*, 70(13), 4030–4043.
- Toni, F., L.Vincenti., L. Grigoletto., A. Ricci., and Y.H. Schukken. 2011. Early lactation ratio of fat and protein percentage in milk is associated with health , milk production , and survival. *Journal of Dairy Science*, 94(4), 1772–1783.
- Turkmen, N. 2017. The Nutritional Value and Health Benefits of Goat Milk Components. In *Nutrients in Dairy and Their Implications for Health and Disease*. Elsevier Inc.

- Van Leeuwen, S. S., E. M. Te Poele., A. C. Chatziioannou. E. Benjamins., A. Haandrikman., and L. Dijkhuizen. 2020. Goat Milk Oligosaccharides: Their Diversity, Quantity, and Functional Properties in Comparison to Human Milk Oligosaccharides. *Journal of Agricultural and Food Chemistry*, 68(47), 13469–13485.
- Vlaeminck, B., V. Fievez., S. Tamminga., R.J. Dewhurst., A. Van Vuuren., D. De Brabander., D. Demeyer. 2006. Milk Odd- and Branched-Chain Fatty Acids in Relation to the Rumen Fermentation Pattern. *J. Dairy Sci.* 89:3954–3964.
- Wu, Y., X. Cao., Y. Wang., R. Gao., K. Wang., Y. Yuan., Y. Mao., X. Chen., Z. Yang., and Z. Chen. 2025. Differential analysis of milk fatty acids in human , Saanen goat , Holstein cow , and Jersey cow milk at different stages of lactation. 38(10), 2233–2249.
- Yakan, A., H. Özkan. A. Eraslan Şakar., C. T. Ateş., N. Ünal., Ö. Koçak., G. Doğruer., and C. Özbeyaz. 2019. Milk yield and quality traits in different lactation stages of damascus goats: Concentrate and pasture based feeding systems. *Ankara Üniversitesi Veteriner Fakültesi Dergisi*, 66(2), 117–129.
- Yudi, A. Atabany, dan B. P. Purwanto.2021. Pengaruh Tipe Kelahiran terhadap Produksi Susu, Lama Laktasi, Masa Kering, Masa Kosong, dan Selang Beranak Kambing Saanen. *Jurnal Ilmu Produksi Dan Teknologi Hasil Peternakan*, 9(2), 102–109.
- Zailan, M. Z., and Yaakub. 2018. Milk composition and fatty acids profile at different stages of lactation in Jamnapari crossbred goats. *Malaysian Society of Animal Production*, 21(2), 109–122.
- Zou, Y., Y. Chen., Q. Meng., Y. Wang., and Y. Zhang. 2024. Cow Milk Fatty Acid and Protein Composition in Different Breeds and Regions in China. *Molecules*, 29(21), 5142.