



DAFTAR PUSTAKA

- Adjie, S. 2011. *Dahsyatnya Sirsak Tumpas Penyakit*. Jakarta: Pustaka Bunda.
- Ahn, D. U., Kim, S. M., dan Shu, H. 1997. Effect of Egg Size and Strain and Age of Hens on the Solids Content of Chicken Eggs. *Poultry science*. Vol 76:914–919.
- Albert, L.L. 2000. *Biochemistry Fundament: Carbohydrat, Protein, Lipid Metabolism*. Maryland, U.S. : The Johns Hopkins University.
- Alessandry, J.M., Goustrad, B., Guesnet, P., dan Durrand, G. 1998. Docosahexaenoic acid concentration in retinal fosfolipid of piglets fed of egg phospholipids and fish oils with different ratio of eicosapentaenoic acid to docosahexaenoic acid. *J.Nut*, 67 (3), 377-385.
- Andarwulan, N., Kusnandar, F., dan Herawati ,D. 2011. *Analisis Pangan*. PT. Jakarta: Dian Rakyat.
- Anwar,T. 2019. *Konsep Kimia: Pengertian dan Prinsip Kerja Kromatografi Gas*. <https://sainskimia.com/pengertian-dan-prinsip-kerja-kromatografi-gas>. Diakses pada 9 Januari 2021.
- AOAC. 2005. *Official Method of Analysis*. Arlington: AOAC International.
- Astawan, M. 2004. Ikan yang Sedap dan Bergizi. Solo: Tiga Serangkai Pustaka Mandiri.
- Asifa, Y., Nafiu, L.O., dan Indi, A. 2020. Karakteristik Telur Ayam Kampung pada Pemeliharaan Tradisional di Kecamatan Tongkuno dan Tongkuno Selatan, *Jurnal Ilmiah Peternakan Halu Oleo*, 2 (3), 291 – 299.
- Baiao, N.C. dan Lara, L.J.C. 2005. Oil and fat in broiler nutrition. *Braz. J. Poult. Sci.*, 7, 129–141.
- Bach, A. C., Ingenbleek, Y., and Frey, A. 1996. The usefulness of dietary medium-chain triglycerides in body weight control: fact or fancy? *J. Lipid Res*, 37, 708-726.
- Bell, D. D. dan Weaver, W. D. 2002. *Comercial Chicken Meat and Egg Production (5th Ed.)*. New York: Springer Science and Business Media, Inc.
- Bharti, Indoria, D., Solanki, R.L., dan Meena, B.S. 2017. A Comparative Impact Study of Edible Oils on Health. *Int.J.Curr.Microbiol.App.Sci*, 6(11), 601-612.
- Bligh, E.G. and Dyer, W.J.1959. A rapid method of total lipid extraction and purification. *Can. J. Biochem. Physiol.*, 37, 911-917.
- Broughton, K.S. dan Morgan, L.J. 1994. Frequency of (n-3) polyunsaturated fatty acid consumption induces alteration in tissue lipid composition and eicosanoid synthesis. *J. Nutr.* 124, 1104-1111.
- Butcher, G.D. dan Miles, R. D. 1995. *Factors Causing Poor Pigmentation of Brown-Shelled Eggs*. USA: Veterinary Medicine-Large Animal Clinical Sciences Department of University of Florida.
- Caramia, G. 2008. The essential fatty acids omega-6 and omega-3: from their discovery to their use in therapy. *Minerva Pediatrica*, 60 (2), 219-33.
- Danish, M. dan Nizami, M. 2019. Complete fatty acid analysis data of flaxseed oil using GC-FID method. *Data in brief* ,23, 103845.



- Davenport, J.B. dan Johnson, A.R. 1971. The nomenclature of lipids. Dalam : Davenport, J.B. dan Johnson, A.R., editors. *Biochemistry and Methodology of Lipids*. Sydney: Wiley-Interscience.
- De Guzman, C.C. dan Siemonsma, J.S. 1999. *PROSEA-Plant Resources of South-East Asia No.13. Spices*. Netherlands: Backhuys Publisher, The Leiden.
- Delany, J. P., Windhauser, M. M., Champagne, C. M., and Bray, G. A. 2000. Differential oxidation of individual dietary fatty acids in humans. *Am. J. Clin. Nutr.*, 72, 905-911.
- Diana, F.M. 2012. Omega 6. *Jurnal Kesehatan Masyarakat*, 7(1), 26-31.
- Djalil, A.D. 2002. Komposisi asam lemak total dari lemak beberapa spesies hewan. *Jurnal Penelitian Sains*, 12, 73-81.
- Enpekyong, C.E., Akpan, E.A, dan Daniel, N.E. 2014. Phytochemical constituents, therapeutic application and toxicological profile of *Cymbopogon citratus* Stapf (DC) leaf extract. *Journal of Pharmacognosy and Phytochemistry*, 3, 133-144.
- Fardiaz, D. 1989. *Kromatografi Gas dalam Analisis Pangan*. Bogor: Pusat Antar Universitas, Institut Pertanian Bogor.
- Fraeye, I., Bruneel, C., Lemahieu, C., Buyse, J., Muylaert, K., dan Foubert, I. 2012: Dietary enrichment of eggs with imega-3 fatty acids: A review. *Food Res. Int.*, 48, 961-969.
- Ganguly, S. 2013. Phytogenic growth promoter as replacers for antibiotic growth promoter in poultry birds. *Adv Pharmacoepidem Drug Safety*, 2, 119.
- Grashorn, M.A. 2010. Use of phytobiotics in broiler nutrition – an alternative to in feed antibiotics?. *J Anim Feed Sci.*, 19, 338-347.
- Gómez, C.C., Bermejo, L.L.M., dan Loria, K.V. 2011. Importance of a balanced omega-6/omega-3 ratio for the maintenance of health. Nutritional recommendations. *Nutr. Hosp.*, 26, 323–329.
- Gunstone, F.D. 1996. *Fatty Acid and Lipid Chemistry*. UK : Blackie Academic & Professional.
- Hakim, L. 2015. *Rempah dan Herbal Kebun-Pekarangan Rumah Masyarakat: Keragaman, Sumber Fitofarmaka, dan Wisata Kesehatan-Kebugaran*. Yogyakarta: Diandra Creative.
- Haryanto, A., Silviana, U., Triyono, S., dan Prabawa, S. 2015. Produksi biodiesel dari transesterifikasi minyak jelantah dengan bantuan gelombang mikro: pengaruh intensitas daya dan waktu reaksi terhadap rendemen dan karakteristik biodiesel. *Agritech*, 35(2), 234-240.
- Hashemi, S.R. dan Davoodi, H. 2011. Herbal plants and their derivatives as growth and healthpromoters in animal nutrition. *Vet ResCommun.*, 35, 169-180.
- Hashemi, S.R., Zulkifli, I., Bejo, M.H., Farida, A., dan Somchit, M.N. 2008. Acute toxicity study and phytochemical screening of selected herbal aqueous extract in broiler chickens. *Int J Pharmacol*, 4, 352-360.
- Hasyim, N. 2009. *Kajian Kerusakan Minyak pada "Jenang Kudus" dengan Penambahan Ekstrak Jahe (Zingiber Officinale Roscoe) Selama Penyimpanan*. Fakultas Pertanian UNS, Surakarta.
- Hatma, R.D., Lukito, W., Rumawas, Y.S.P. 2005. Fatty acids intake among diverse ethnic groups in Indonesia. *Med J Indones*, 14 (4), 242-248.



- Hayani, E. 2006. Analisis kandungan kimia rimpang temulawak. *Temu Teknis Nasional Tenaga Fungsional Pertanian*. Pusat Pertanian dan Pengembangan Peternakan.
- Hayes, K.C. 2002. Dietary fat and heart health: in search of the ideal fat. *Asia Pacific J Clin Nutr*, 11, 394-400.
- Hidayat, R., Pasaribu, S.P., Saleh, C. 2015. Penggunaan internal standar nitrobenzena untuk penentuan kuantitatif Btex dalam kondensat gas alam dengan kromatografi gas. *Jurnal Kimia Mulawarman*, 12(2), 90-96.
- Hidayanto, F., Ardi, D.S., Ilmi, M.Z., Sutopo, I.G., Religia, A.M., Millah, F.N., Sari, Y.N., Zakkia, A.N., dan Afifah, Y.N. 2015. Tanaman herbal sebagai tanaman hias dan tanaman obat. *Jurnal Inovasi dan Kewirausahaan*, 4, 1-4.
- Hjermann, I., Enger, S.C., Helgeland, A., Holme, I., Leren, P., dan Trygg, K. 1979. The effect of dietary changes on high density lipoprotein cholesterol. *The Oslo Study. Am J Med*, 66, 105–109.
- Jaelani, A. dan Zakir, M.I. 2016. Kualitas Eksterior dan Interior Telur Komersil pada Beberapa Peternakan di Kabupaten Tanah Laut. *Prosiding Hasil Hasil Penelitian Tahun*, 1-12.
- JYBMedia. 2020. *Kenali Manfaat Telur Ayam yang Sebenarnya*. <https://jybmedia.com/2020/02/22/kenali-manfaat-telur-ayam-yang-sebenarnya>. Diakses pada 9 Januari 2021.
- Kementrian Kesehatan Republik Indonesia. 2018. *Data Komposisi Pangan Indonesia*. <http://www.panganku.org/id-ID/view>. Diakses pada 1 Oktober 2020.
- Kementrian Kesehatan Republik Indonesia. 2019. *Peraturan Menteri Kesehatan Republik Indonesia Nomor 28 Tahun tentang Angka Kecukupan Gizi yang Dianjurkan untuk Masyarakat Indonesia*. Indonesia: Kemenkes RI.
- Khopkar, M.S. 2007. *Konsep Dasar Kimia Analitik*. Jakarta : UI Press.
- Krogdahl, A. 1985. Digestion and absorption of lipids in poultry. *J.Nutr.*, 115, 675-685.
- Kwan, B.C.H., Kronenberg, F., Beddhu, S., dan Cheung, A.K. 2007. Lipoprotein Metabolism and Lipid Management in Chronic Kidney Disease. *JASN*, 18 (4), 1246-1261.
- Lešić, T., Krešić, G., Cvjetnić, L., Petrović, M., dan Pleadin, J. 2017. The Influence of hen age on fatty acid composition of commercial eggs. *Croat. J. Food Science Technology*, 9(2), 158 – 167.
- Leskanich, C.O. dan Noble, R.C. 1997. Manipulation of the n-3 polyunsaturated fatty acid composition of avian eggs and meat. *World's Poultry Science Journal*, 53, 155-183.
- Lipid. In Merriam-Webster Dictionary. <https://www.merriam-webster.com/dictionary/lipid>. Diakses pada 12 Februari 2021.
- Magdalena, S., Natadiputri, G.H., Nailufar, F., dan Purwadaria, T. 2013. Pemanfaatan produk alami sebagai pakan fungsional. *Wartazoa*, 23(1), 31-40.
- Mamuaja, C.F. (2017). *Lipid*. Manado: Unsrat Press.



- Manduapessy, K.R.W. 2017. Profil Asam Lemak Ikan Layang Segar (*Decapterus macrosoma*). *Majalah BIAM*, 13 (01), 42-46.
- Marliyati, A. 2005. Pemanfaatan sterol lembaga gandum (*Triticum sp.*) untuk pencegahan aterosklerosis. Bogor: Institut Pertanian Bogor.
- McNair, H.M. dan Miller, M. 2005. *Basic Gas Chromatography* (2nd Ed.) USA: A John Wiley & Son, Inc.
- Miwa,T.K., Mikolajczak, K.L., Earle,F.R., dan Wolff, L.A. 1960. *Anal Chem.*,32, 1739-1742.
- Munn, D. 2013. Why are chicken eggs different colors? https://www.canr.msu.edu/news/why_are_chicken_eggs_different_colors. Diakses pada 18 Maret 2021.
- Murugesan, G.R., Syed, B., Haldar, S., dan Pender, C. 2015. Phylogenetic feed additives as an alternative to antibiotic growth promoters in broiler chickens. *Front Vet Sci.*, 2(21), 1-6.
- Mustonen A.M., Kakela R., Asikainen J., dan Nieminen P. 2009. Selective fatty acid mobilization from adipose tissues of the pheasant (*Phasianus colchicus mongolicus*) during food deprivation. *Physiological and Biochemical Zoology*, 82 (5), 531-540.
- Nielsen. 1998. Hen age and fatty acid composition of egg yolk lipid. *British Poultry Science*, 39(1), 53-56.
- Noble, R.C. 1987. Egg Lipids. In Wells. R.G dan Belyavin, C.G.(Eds) Egg Quality- Current Problems and Recent Advances. *Poultry Symposium Number 20*. pp 159-177. London: Butterworths.
- Nyberg, J. 2017. *Analysis of Fatty Acids in Egg Yolks of Various Production Systems*. Sweden: Swedish University of Agricultural Sciences.
- Orr, H.L. dan Fletcher, D.A. 1973. *Egg and Egg Products*. Canada: Dept. of Agriculture.
- Orthoefer, F.T. 1996. Vegetable oils, dalam *Bailey's Industrial Oil and Fat Products, Edible Oil and Fat Products: General Applications* (ed Y.H.Hui), 5th edn. New York: John Wiley & Sons, Inc.
- Park, P.W dan Goins, R.E. 1994. In situ preparation of fatty acid methyl esters for analysis of fatty acid composition in foods. *Journal of Food Science*, 59(6).
- Pasaribu, T. 2019. Peluang zat bioaktif tanaman sebagai alternatif imbuhan pakan antibiotik pada ayam. *J. Litbang Pert.*, 38(2), 96-104.
- Petrović, M., Gačić, M., Karačić, V., Gottstein, Ž., Mazija, H., Medić, H. 2012. Enrichment of eggs in n-3 polyunsaturated fatty acids by feeding hens with different amount of linseed oil in diet. *Food Chem*, 135, 1563-1568.
- Polat, E.S., Citi, O.B., dan Garip, M. 2013. Fatty acid composition of yolk of nine poultry species kept in their natural environment. *Animal Science Papers and Reports*, 31 (4), 363-368.
- Poorghasemi, M., Seidavi, A., Qotbi, A.A., Laudadio, V., Tufarelli, V. 2013. Influence of dietary fat source on growth performance responses and carcass traits of broiler chicks. *Asian Australas. J Anim Sci.*, 26, 705–710.
- Praharyawan, S., Rahman, D. Y., dan Susilaningsih, D. 2016. Characterization of Lipid Productivity and Fatty Acid Profile of Three Fast-Growing



Microalgae Isolated from Bengkulu for Possible Use in Health Application. *The Journal of Tropical Life Science*, 6(2), 79 – 85.

Prapanza, I., Marianto, dan Lukito,A. 2003. *Khasiat dan Manfaat Sambiloto :Raja Pahit Penakluk Aneka Penyakit*. Jakarta: Agromedia Pustaka.

Pustekkom Kemdikbud. 2016. Lemak: Struktur. <https://sumberbelajar.belajar.kemdikbud.go.id/sumberbelajar/tampil/Lemak-2016-2016/menu3.html>. Diakses pada 6 Oktober 2020.

Rahardjo, M. dan Rostiana,O. 2005. *Budidaya Tanaman Kunyit*. Bogor: Balai Penelitian Tanaman Obat dan Aromatika. Sirkuler No. 11.

Rangel, E.Ramirez. 2005. *Contribution to the Study of Heterogeneus Catalytic Reactions in Scfs: Hydrogenation of Sunflower Oil in Pd Catalysts at Single Phase Conditions*. Spain: Universitat Politecnica de Catalunya.

Raposo, M.F.J., dan de Morais, A.M.M.B. 2015. Microalgae for the prevention of cardiovascular disease and stroke. *Life Sciences*, 125 32-41.

Rasyaf, M. 1998. *Beternak Ayam Kampung*. Jakarta: Penebar Swadaya.

Réhault-Godbert, S., Guyot, N., dan Nys, Y. 2019. The Golden Egg: Nutritional Value, Bioactivities, and Emerging Benefits for Human Health. *Nutrients*, 11, 684-710.

Rizalina, H., Cahyono, E., Mursiti, S., Nurcahyo,B., Supartono. 2018. Optimasi Penentuan Kadar Metanol dalam Darah Menggunakan Gas Chromatography. *Indonesian Journal of Chemical Science*,7(3).

Rustan, A.C. dan Drevon, C. A. 2005. Fatty Acids: Structures and Properties. *Encyclopedia Of Life Sciences*. Oslo: John Wiley & Sons, Ltd.

Sahan, U., Ipe, A., dan Sozcu, A. 2014. Yolk sac fatty acid composition, yolk absorption, embryo development, during incubation in eggs from young and old broiler breeders. *Poult. Sci* , 93, 2069-2077.

Sauerwald, T.U., Hachey, D.L., Jensen, C.L., Chen, H., Anderson, R.E., Heird, W.C. 1997. Intermediate in endogenous synthesis of C22:6 omega-3 and C20:4 omega-6 by term and preterm infants. *Pediatry Research*, 41, 183-187.

Scanes, C.G. 2018. Animal Products and Human Nutrition. *Animals and Human Society*, 41-64.

Schmieder, R., dan Edwards, R. 2012. Insights into antibiotic resistance through metagenomic approaches. *Future Microbiol*. 7(1), 73-89.

Setyanto, A., Atmomarsono, U., dan Muryani, R. 2012. Pengaruh Penggunaan Tepung Jahe Emprit (*Zingiber officinale* var *Amarum*) dalam Ransum terhadap Laju Pakan dan Kecernaan Pakan Ayam Kampung Umur 12 Minggu. *Animal Agriculture Journal*, 1 (1),711–720.

Simopoulos, A.P. 2002. The importance of the ratio of omega-6/omega-3 essential fatty acids. *Biomedicine Pharmacotherapy*, 56, 365-379.

Simopoulos, A.P. 2009. Omega-6/omega-3 essential fatty acids: biological effects. *World Rev Nutr Diet*, 99, 1-16.

Smaolin, L.A. dan Grosvenor, M.B. 1997. *Nutrition: Science and Applications* (2nd ed.). USA: Saunders College Publishing.

Smink,W. 2012. *Fatty Acid Digestion, Synthesis and Metabolism in Broiler Chickens and Pigs*. Netherlands: Wageningen University.



- Soejono, M. 1990. *Petunjuk Laboratorium Analisis dan Evaluasi Pakan*. Yogyakarta: Fakultas Peternakan Universitas Gadjah Mada.
- Sosulski, F.W. dan Holt, N.W. 1980. Amino acid composition and nitrogen-to-protein factors for grain legumes. *Can. J. Plant Sci.*, 60, 1327-1331.
- Stadelman, W.J. dan Cotterill, O.J. 1995. *Egg Science and Technology*. Westport, Connecticut: The Avi Publishing Co., Inc.
- Sulistiati. 2003. *Pengaruh Berbagai Macam Pengawet dan Lama Penyimpanan terhadap Kualitas Telur Konsumsi*. Fakultas Peternakan, Institut Pertanian Bogor, Bogor.
- Suprapti, L. 2002. *Pengawetan Telur*. Yogyakarta: Kanisius.
- Tokuşoğlu, Ö. 2006. The quality properties and saturated and unsaturated fatty acid profiles of quail egg: the alterations of fatty acids with process effects. *International Journal of Food Sciences and Nutrition*, 57(7/8): 537-545.
- USDA. 2019. *Eggs, Grade A, Large, egg white*. <https://fdc.nal.usda.gov/fdc-app.html#/food-details/747997/nutrients>. Diakses pada 1 Oktober 2020.
- USDA. 2019. *Eggs, Grade A, Large, egg whole*. <https://fdc.nal.usda.gov/fdc-app.html#/food-details/748967/nutrients>. Diakses pada 1 Oktober 2020.
- USDA. 2019. *Eggs, Grade A, Large, egg yolk*. <https://fdc.nal.usda.gov/fdc-app.html#/food-details/748236/nutrients>. Diakses pada 1 Oktober 2020.
- Winarto, W.P. 2003. *Khasiat dan Manfaat Kunyit*. Jakarta: Agromedia Pustaka.
- Windisch, W.M., Schedle, K., Plitzner, C., dan Kroismayr, A. 2008. Use of phytogenic products as feed additives for swine and poultry. *J Anim Sci.*, 86(14), 140-148.
- Witantri, H., Suprijatna, E., dan Sarengat, W. 2013. Pengaruh penambahan tepung jahe merah (*Zingiber officinale var rubrum*) dalam ransum terhadap kualitas telur ayam kampung periode layer. *Animal Agriculture Journal*, 2(1), 377 – 384.
- Yamamoto, T., Juneja, L.R. Hatta dan M. Kim. 1997. *Hen Eggs*. New York: CRC Press.