



DAFTAR PUSTAKA

- Anonim. 2004. *Diagnosis and Classification of Diabetes Mellitus Care.* 27:S5-S10.
- Agustina, R. 2013. Karakterisasi Analog Nugget dari Koro Pedang Putih (*Canavalia ensiformis*) dengan Bahan Pengikat Tapioka. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Agnes-Murdiati., Supriyanto dan Hasan, P.N. 2014. Aplikasi Tepung Koro Pedang (*Canavalia ensiformis.L*) Putih Perlakuan Blansing dan Perendaman pada Pembuatan Donat. Seminar Nasional. Sinergi Pangan, Pakan dan Energi Terbarukan. UPT BPPTK LIPI.
- Alim, A. 2012. Peningkatan Kandungan Protein Mie Tapioka Menggunakan Tepung Koro Pedang Putih (*Canavalia ensiformis*). Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Alsahli, M and Gerich, J.E. 2010. *Abnormalities of Insulin Secretion and β -cell Defects in Type 2 Diabetes in Textbook of Diabetes Fourth Edition.* Ed : Richard, I.G.H., Clive, S.C., Allan, F dan Barry, J.G. London : Willey-Blackwell.
- Alsohaimy, S.A., Sitohy, M.Z and Masry, El. 2007. *Isolation and Partial Characterization of Chickpea, Lupine and Lentil Seed Proteins.* World Journal of Agricultural Sciences 3 (1): 123-129.
- Amza, T., Amadou, I., Zhu, K and Zhou, H. 2011. *Effect of Extraction and Isolation on Physicochemical and Functional Properties of an Underutilized Seed Protein : Gingerbread Plum (*Neocarya macrophylla*).* Journal of Food Research International. 44: 2843-2850.
- Anonim. 1984. *Official Methods of Analysis, Association of Official Analytical Chemists.* Washington D.C, USA.
- Anonim. 1990. *Official Methods of Analysis, Association of Official Analytical Chemists.* Washington D.C, USA.
- Anonim. 1995. *Official Methods of Analysis, Association of Official Analytical Chemists.* Washington D.C, USA.
- Altschul, A.M and Wilcke, H.L. 1985. *New Protein Foods.* Academic Press Inc.



- Astuti, B.C.A. 2012. Karakteristik Moromi yang dihasilkan dari Fermentasi Moromo Kecap Koro Pedang (*Canavalia ensiformis* L.) pada Kondisi Fermentasi yang Berbeda. Tesis. Universitas Gadjah Mada. Yogyakarta.
- Banerjee, M and Vats, P. 2014. *Reactive Metabolites and Antioxidant Gene Polymorphisms in Type 2 Diabetes Mellitus*. Redox Biology 2:170-177. Elsevier Ltd.
- Barham, D and Trinder, P. 1972. *An Improve Colour Reagent for The Determination of Blood Glucose by The Oxidase System*. 97:142-145.
- Boron,W.F and Boulpaep, E.L. 2009. *Medical Physiology : A Cellular and Molecular Approach*. 2nd edition. Philadelphia: Saunders Elsevier.
- Belitz, H.D., Grosch, W., and Schieberle. 2009. *P. Amino Acids, Peptides and Proteins*. Food Chemistry. Springer Berlin Heidelberg.
- Berk, Z. 1992. *Technology of Production of Edible Flours and Protein Product from Soybeans*. FAO Agricultural Services Bulletin No.97.
- Burns, A.E., Bradbury, J. H., Cavagnaro, T.R., and Gleadow, R.M. 2012. *Total Cyanide Content of Cassava Food Products in Australia*. Journal of Food Composition and Analysis 25: 79–82.
- Burtis, G., Davis, J and Martin, S. 1988. *Applied Nutrition and Diet Therapy*. W.B. Saunders Company.
- Canti, M. 2014. Karakteristik Isolat Protein Koro Pedang Putih (Canavalia ensiformis.L) dan Pemanfaatannya sebagai Binder pada Sosis Ayam. Tesis. Universitas Gadjah Mada.Yogyakarta.
- Chen, Z.Y., Jiao, R and Ma, K.Y. 2008. *Cholesterol-Lowering Nutraceuticals and Functional Foods*. Journal of Agricultural and Food Chemistry. 56: 8761–8773.
- Cole, T.G., Klotzch, S.G and McNamara J. 1997. *Measurement of Trygliceride Concentration*. In Rifai N., Warnick G.R and Dominiczak M.H. Handbook of Lipoprotein Testing. AAC Press. Washington DC:115-126.
- Cotran, R.S., Kumar, V and Collins, T. 2006. *Pathologic Basic of Disease*. Sixth edition. A Harcourt Asia Company. India
- Deeg, R and Ziegenhorn, J. 1983. *Kinetic Enzymatic Method for Automated Determination of Total Cholesterol in Serum*. Clinical Chemistry 29 :1798-1802.



- deGoma, E.M., deGoma, R and Rader, D.J. 2008. *Beyond High-Density Lipoprotein Cholesterol Levels Evaluating High-Density Lipoprotein Function as Influenced by Novel Therapeutic Approaches*. Journal of The American Colledge of Cardiology. 51:2199–2211.
- Derot, M and Tehobroutsky, G. 1970. *The Important of Diet in The Treatment of Diabetes Melitus*. In Proceddings of The VII. Congress of The Buenos Aires. August 23-28. Excerpta Media International Congress Series No-231 p.12.
- Djazuli, M and Bradbury, J.H. 1999. *Cyanogen Content of Cassava Roots and Flour in Indonesia*. Food Chemistry 65: 523-525.
- Dickinson, J.M and Ramussen, B. 2012. Encyclopedia of Exercise Medicine in Health and Disease :58-61.
- Effendi, H., Hanafiah, M.J and Kadri. 1981. Fisiologi Sistem Hormonal dan Reproduksi dengan Pathofisiologinya. Penerbit Alumni. Bandung.
- Eroschenko, V.P. 2008. Atlas Histologi diFiore dengan Korelasi Fungsional. Penerbit Buku Kedokteran EGC. Jakarta.
- Erukainure, O.L., Ebuehi, O.A.T., Adeboyejo, F.O., Okafor, E.N., Aliyu, M and Elemo, G.N. 2013. *Fiber-Enriched Biscuit Enhances Insulin Secretion, Modulates B-Cell Function, Improves Insulin Sensitivity, and Attenuates Hyperlipidemia in Diabetic Rats*. PharmaNutrition 1 : 58–64.
- Federer, W.Y. 1963. *Experimental Design Theory and Application*. New York, Mac Millan. 544.
- Feinglos N.M and Bethel M.A. 2008. *Type 2 Diabetes Mellitus. An-Evidence-Based Approach to Practical Management*. Human Press. Totowa (USA).
- Fenech, G., Rajzbaum, G., Mazighi, M., and Blacher, J. 2014. *Serum Uric Acid and Cardiovascular Risk : State of The Art and Perspective*. Journal of Joint Bone Spine. 81:392-397.
- Fontanari, G.G., Batistuti, J.D. C., Saldiva, P.H.N.S and Areas, J.A.G. 2012. *Cholesterol-Lowering Effect of Whole Lupin (Lupinus Albus) Seed and Its Protein Isolate*. Food Chemistry 132: 1521-1526.
- Ganong, F.W. 1983. *Fisiologi Kedokteran*. Tim Adji Dharma. EGC
- Ganong, W.F. 2005. *Review of Medical Physiology*. Twenty Second Edition. McGraw-Hill. USA.



- Gannon, M.C., Nuttall, J.A and Nuttall, F.Q. 2002. *The Metabolic Response to Ingested Glycine*. American Journal of Clinical Nutrition. 76: 1302-1307.
- Gannon, M.C., Nuttall, F.Q., Saeed, A. Jordan and K. Hoover, H. 2003. *An Increase in Dietary Protein Improves The Blood Glucose Response in Person with Type 2 Diabetes*. American Journal of Clinical Nutrition. 78: 734-41.
- Goldberg, R.B. 1981. *Lipid Disorders in Diabetes*. Diabetes Care vol.4 No.5:561-572.
- Guder, W.G., Narayanan, S., Hermann, W and Zawta, B. 2001. *The Quality of Diagnostic Samples*. 1st Edition. Darmstadt GIT Verlag: 30-31.
- Gunawan, A dan H. Tandra. 1998. Patogenesis Diabetes Mellitus tidak Tergantung Insulin (DMTII). Pusat Diabetesi dan Nutrisi RSUD. Dr. Soetomo-FK. Unair. Majalah Diabetes. Vol.4 No.1. Surabaya.
- Guyton and Hall. 2011. *Textbook of Medical Physiology Twelfth Edition*. Piladelpia : Saunders Ersevier.
- Halomoan, H. 2004. Karbohidrat. Universitas Sumatra Utara. Medan.
- Hartoyo, A., Muchtadi, D., Astawan, M., Dahrulsyah dan Winarto, A. 2011. Pengaruh Ekstrak Protein Kacang Komak (Lablab purpureus (L.) Sweet) pada Kadar Glukosa Darah dan Profil Lipida Serum Tikus Diabetes Melitus. Jurnal Teknologi dan Industri Pangan Vol. XXII No.1.
- He, J., Yang, Z., Yang, H., Wang, L., Wu, H., Fan, Y., Wei, W., Fan, X and Li, X. 2015. *Regulation of Insulin Sensitivity, Insulin Production, and Pancreatic Cell Survival by Angiotensin-(1-7) in A Rat Model Ofstreptozotocin-Induced Diabetes Mellitus*. Journal of Peptides. 64:49-54.
- Holt, R.I.G., Cokram, C., Flyvbjerg, A and Goldstein, B.J. 2010. *Text Book of Diabetes 4th ed.* Blackwell Publishing. Singapore.
- Holeč, M. 2004. *Contribution of Amino Acids to Ketogenesis*. In Metabolic and Therapeutic Aspects of Amino Acids in Clinical Nutrition. Second Edition. Edited by Luc A. Cynober. CRC Press. USA.
- Horowitz, J.F. 2003. *Fatty Acid Mobilization From Adiposen Tissue during Exercise*. TRENDS In Endocrinology And Metabolism 14(8) : 386-392.
- Hughes, G.J., Ryan, D.J., Mukherjea, R and Schasteen, C. 2011. *Protein Digestibility-Corrected Amino Acid Scores (PDCAAS) for Soy Protein*



Isolates and Concentrate: Criteria for Evaluation. Journal of Agricultural and Food Chemistry. 59:12707-12712.

Iritani, N., Sugimoto, T., Fukuda, H., Komiya, M and Ikeda, H. 1997. *Dietary Soybean Protein Increases Insulin Receptor Gene Expression in Wistar Fatty Rats when Dietary Polyunsaturated Fatty Acid Level is Low.* Journal of Nutrition. 127: 1077–1083.

Jia, Z., Zhang, X., Kang, S., and Wu, Y. 2013. *Serum Uric Acid Levels and Incidence of Impaired Fasting Glucose and Type 2 Diabetes Mellitus : A Meta Analysis of Cohort Studies.* Diabetes research and Clinical Practice. 101:88-96. Elsevier Ireland Ltd.

Kaneko,K., Aoyagi, Y., Fukuuchi, T., Inazawa, K and Yamaoka, N. 2014. *Total Purine and Purine Base Content of Common Foodstuffs For Facilitating Nutritional Therapy for Gout and Hyperuricemia.* Journal of Biological and Pharmaceutical Buletin 37 (5):709-721.

Kanetro, B. 2003. Profil Asam Amino Kecambah Kedelai Kaitannya dengan Jumlah Insulin Pancreas Islet Tikus Normal dan Diabetes Melitus. Disertasi. Universitas Gajah Mada. Yogyakarta.

Kaplan, A dan Szabo, L. 1983. *Clinical Chemistry : Interpretation and Techniques.* Second Edition. Lea and Febiger. Philadelphia.

Karamanolis, A., Chaikomin, R., Doran, S., Bellon, M., Bartholomeusz, F.D. Wishart, J.M., Jones, K.L., Horowitz, M and Rayner, C.K. 2007. *Effect of Protein on Glycemic and Incretin Responses and gastric Emptying After Oral Glucose in Healthy Subjects.* American Journal of Clinical Nutrition. 86:1364-8.

Khanal, R.C., Howard, L.R., Wilkes, S.E., Rogers, T.J and Prior, R.L. 2010. *Cranberry Pomace Partially Ameliorates Metabolic Factors Associated with High Fructose Feeding in Growing Sprague-Dawley Rats.* Journal of Functional Foods 2 :284-291.

Kimball, S.R., Farrell, P.A., and Jefferson, L.S. 2002. *Role Of Insulin In Translational Control Of Protein Synthesis In Skeletal Muscle By Amino Acids Or Exercise.* Journal of Applied Physiology. 93:1168 –1180.

Kreutler, P.A. 1980. *Nutrition in Perspective.* Prentice Hall Inc. New Jersey.

Kumar, S and O'Rahilly, S. 2005. *Insulin Resistance : Insulin Action and Its Disturbances in Disease.* John Wiley and Sons Ltd.



Kurowska, E.M and Carroll, K.K. 1994. *Hypercholesterolemic Responses in Rabbits to Selected Groups of Dietary Essential Amino Acids*. The Journal of Nutrition 124 : 364-370.

Lee, J.S. 2006. *Effect of Soy Protein and Genistein on Blood Glucose, Antioxidant Enzyme Activities, and Lipid Profile in Streptozotocin Diabetic Rats*. Journal of Life Science. Elsevier Inc. 1578-1584.

Lee, Y.S., Kim, Y.W., Kim, S.G., Lee,I., Lee, M.G and Kang, H.E. 2012. *Effects of Poloxamer 407-Induced Hyperlipidemia on The Pharmacokinetics of Carbamazepine and Its 10,11-Epoxide Metabolite in Rats: Impact of Decreased Expression Of Both CYP3A1/2 and Microsomal Epoxide Hydrolase*. European Neuropsychopharmacology 22:431–440.

Lehnninger. 1982. Dasar – Dasar Bikomia. Editor : Maggy Thenawijaya. Erlangga. Jakarta.

Lopes, V.M.F., Stone, P., Ellis, S and Coldwell, J.A. 1977. *Cholesterol Determination in High Density Lipoproteins Separated by Three Different Methods*. Clinical Chemistry: 882-884.

Mahamuni, S.P., Khose, R.D., Menaa, F and Badole, S.L. 2012. *Therapeutic Approaches to Drug Targets in Hyperlipidemia*. Biomedicine 2:137-146.

Mayer, J. 1971. *Dietary Control of Diabetes*. Postgrad. Med. 50 : 43.

Moffat, R, J and Stamfort, B. 2006. *Lipid Metabolism and Health*. CRC Press, Taylor and Francis Group. United States of America.

Mustaqim, M. 2012. Pengembangan Produk Flakes dari Campuran Terigu, Pati Garut (*Marantha arundinacea* L) dan tepung Koro Pedang (*Canavalia ensiformis*) Putih. 2012. Skripsi. Universitas Gadjah Mada. Yogyakarta.

Nakagawa, T., Yokozawa, T., Kim, H.J and Shibahara, N. 2004. *Protective Effects of γ -Aminobutyric Acid in Rats with Streptozotocin-Induced Diabetes*. Journal of Nutritional Science and Vitaminology vol.51:278-282.

Newman D.J and Price, C.P^a. 1999. *Renal Function and Nitrogen Metabolites*. In Burtis C.A., Ashwood E.R. Textbook of Clinical Chemistry 3rd Edition. W.B. Saunders Company :1204-1270.

Newman D.J and Price, C.P^b. 1999. *Renal Function and Nitrogen Metabolites*. In Burtis C.A., Ashwood E.R. Textbook of Clinical Chemistry 3rd Edition. W.B. Saunders Company :1250.



- Newsholme, P., Lorraine, B and Katrin, B. 2006. *Amino acid Metabolism, β cells Function and Diabetes*. Diabetes Vol. 55: S39-S47.
- Ngatidjan. 2006. Metode Laboratorium dalam Toksikologi. Bagian Farmakologi dan Toksikologi Fakultas Kedokteran UGM. Yogyakarta.
- Ogunji, J.O., Wirth, M and Osuigwe, D.I. 2003. *Nutrient Composition of Some Tropical Legumes Capable of Substituting Fish Meal in Fish Diets*. Journal of Agriculture and Rural Development in The Tropics and Subtropics. Vol. 104, No.2:143-148.
- Parasuraman, S., Babuji, S.S.H., Thing, G.S., Kumari, K.S., Yoganishalini, A., Lian, C.W., Kumutha, M., Kassim, T and Dhanaraj, S.A. 2013. *Antihyperlipidemic Effect of Angiosifa, A Polyherbal Formulation, In Sprague Dawley Rats*. *Pharmacognosy Journal* 5 : 221-227.
- Pierre, W., Gildas, A.J., Ulrich, M.C., Modeste, W.N, Benoit, N.T and Albert, K. 2012. *Hypoglycemic and Hypolipidemic Effects of Bersama engleriana leaves in Nicotinamide/Streptozotocin- Induced Type 2 Diabetic Rats*. *BMC Complementary and Alternative Medicine*. 12:264.
- Piyachomkwan, K., Wanlapatit, S., Chotieeranan, S and Sriroth, K. 2005. *Transformation and Balance of Cyanogenic Compounds in the Cassava Starch Manufacturing Process*. WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.
- Powers, A.C. 2001. *Diabetes Melitus*. dalam Braunwald dkk.,editor Harrison's. *Principle of Internal Medicine*. Edisi ke-15. McGraw-Hill Companies. USA.
- Rader, D.J.2006. *Molecular Regulation of HDL Metabolism and Function : Implications for Novel Therapies*. *J Clin Invest*.116:3090–3100.
- Rahadiyanti, A. 2011. Pengaruh Tempe kedelai terhadap Kadar Glukosa darah pada Prediabetes. Universitas Diponegoro. Semarang.
- Rahmawati, F. 2003. Pengaruh Diet Kacang Merah Terhadap Kadar Gula dan Profil Lipid Darah serta Sifat Digesta Tikus Diabetic. Tesis. Universitas Gajah Mada. Yogyakarta.
- Reeves, P.G., Nielsen, F.H and Fahey, G.C. Jr. 1993. *AIN-93 Purified Diets for Laboratory Rodents: Final Report of the American Institute of Nutrition Ad Hoc Writing Committee on the Reformulation of the AIN-76A Rodent Diet*. *Journal of Nutrition*. 123: 1939-1951.



Rifai, N., Bachorik, P.S., and Albert J.J. 1999. *Lipids, Lipoprotein and Apolipoproteins*. In Burtis C.A and Ashwood, E.R. Tieltz Textbook of Clinical Chemistry 3rd Edition. W.B Saunders Company Philadelphia : 809-861.

Riskedas. 2013. Riset Kesehatan Dasar. <http://www.slideshare.net/ssuser200d5e/riskesdas-2013-30782412>. Diakses tanggal 17 Februari 2014.

Russin, T. A., A, Yves and B, Joyce I. 2007. *Particle Size Effect on Soy Protein Isolate Extraction*. *Journal of Food Processing and Preservation* 31. 308-319.

Salway, J.G. 2004. *Metabolism at a Glance*. Foreword by Granner, D.K. Third Edition. USA.

Shepherd, P.R and Khan, B.B. 1999. *Glucose Transporters and Insulin Action*. The New England Journal of Medicine.

Siddhuraju, P and Becker, K. 2001. *Species/Variety Differences in Biochemical Composition And Nutritional Value of Indian Tribal Legumes of The Genus Canavalia*. *Nahrung/Food* 45 No. 4: 224 - 233.

Sivakumar, K., Thamarai, R and Pragatha, R. Jey. 2014. *Uric Acid : a Marker of Increased Various Disease and Risks*. *Pharmacophore* vol.5(1): 35-43.

Smartt, J. 1985. *Evolution of Grain Legumes II. Old And New World Pulses of Lesser Economic Importance*. *Experimental Agriculture*, 21, 1–18.

Soeroso, J dan Algristian, H. 2011. Asam Urat. Penebar Plus. Depok.

Sridhar, K.R and Seena, S. 2006. *Nutritional and Antinutritional Significance of Four Unconventional Legumes of The Genus Canavalia – A comparative study*. *Journal of Food Chemistry* 99 267-288.

Subagio, A., Windrati, W.S., Witono, S. 2003. Pengaruh Penambahan Isolat Protein Koro Pedang (*Canavalia ensiformis* L.) terhadap Karakteristik Cake. *Jurnal Teknologi dan Industri Pangan*, Vo. XIV, No.2

Szkudelski, T. 2001. *The Mechanism of Alloxan and Streptozotocin Action in B Cell of The Rat Pancreas*. *Physiological Research*. 50:536-546.

Szkudelski, T. 2012. *Streptozotocin-nicotinamide Induced Diabetes in Rats*. Characteristics of The Experimental Model. *Experimental Biology and Medicine* 237: 481-490.



Tachibana, N., Wanezaki, S., Nagata, M., Motoyama, T., Kohno, M and Kitagama, S. 2013. *Intake of Mung Bean Protein Isolate Reduces Plasma Tryglyceride Level in Rats*. The Journal of Functional Foods in Health and Disease. 3(9): 365-376.

Terpstra, A.H.M., Holmes, J.C., and Nicolosi, R.J. 1991. *The Hypocholesterolemic Effect of Dietary Soybean Protein vs. Casein in Hamsters Fed Cholesterol-Free or Cholesterol-Enriched Semipurified Diets*. Journal of Nutrition. 121: 944-947.

Thomas, L. 1998. *Clinical Laboratory Diagnostics*. 1st Edition. Franfurt: TH-Books Verlagsgesellschaft. 131-137.

Vadivel, V., Cheong, J.N and Biesalski, H.K. 2012. *Antioxidant and Type II Diabetes Related Enzyme Inhibition Properties of Methanolic Extract of an Underutilized Food Legume, Canavalia ensiformis (L.) DC : Effect of Traditional Processing Methods*. Journal of Food Science and Technology. 47:255-260.

Visnagri, A., Kandhare, A.D., Kumar, V.S., Rajmane, A.R., Mohammad, A., Ghosh, P., Ghule, A.E and Bodhankar, S.L. 2012. *Elucidation of Ameliorative Effect Of Co-Enzyme Q10 in Streptozotocin-Induced Diabetic Neuropathic Perturbation By Modulation Of Electrophysiological, Biochemical And Behavioral Markers*. Biomedicine & Aging Pathology 2 : 157–172.

Wahyuni, R.R. 2010. Pengaruh Hipoglikemik Ekstrak Protein Kecipir (*Psophocarpus tetragonolobus*) pada Tikus Diabetik Induksi Aloksan. Tesis. Universitas Gadjah Mada. Yogyakarta.

Waring, W.S., Webb, D.J and Maxwell, S.R.J. 2000. *Uric Acid as a Risk Factor for Cardiovascular Disease*. Quarterly Journal of Medicine. 93:707-713.

Waring, W. S., Webb, D.J and Maxwell, S.R.J. 2001. *Systemic Uric Acid Administration Increases serum Antioxidant Capacity in Healthy Volunteers*. Journal of Cardiovascular Pharmacology. 38:365-371.

Wilcox, G. 2005. *Insulin and Insulin Resistance*. The Clinical Biochemist Reviews. Volume 26.

Winarno, F.G. 1991. Kimia Pangan dan Gizi. Penerbit PT. Gramedia. Jakarta.

Wisaniyasa, N.W., Marsono, Y and Noor, Z. 2002. Pengaruh Diet Ekstrak Protein Kedelai terhadap Glukosa Serum pada Tikus Diabetik Induksi Alloxan. Agritech Vol.22 No.1:22-25.



West, K.M. 1973. *Diet Therapy of Diabetes : An Analysis of Failure.* Ann Intern med. 79 : p.425.

Wild, S., Roglic, G., Green, A., Sicree, R and King, H. 2004. Global Pravalence of Diabetes: Estimates for The Year 2000 and Projections for 2030. Journal of Diabetes Care 27:1047-1053.

Zhou, X., Zhang, W., Liu, X., Zhang, W and Li, Y. 2014. *Interrelationship between Diabetes and Periodontitis : Role of Hyperlipidemia.* Archieves of Oral Biology Journal. Article in Press.

Zhu, Y., Hu, Y., Huang, T., Zhang, Y., Zhi, L., Chaohuan, L., Luo, Y., Yuan, H., Hisatome, I., Yamamoto, T and Cheng, J. 2014. *High Uric Acid Directly Inhibits Insulin Signalling and Induces Insulince Resistance.* Journal of Biochemical and Biophysical Reasearch Communications. 447:707-714.