

DAFTAR PUSTAKA

- Adisakwattana, S., & Chanathong, B., 2011, α -Glucosidase Inhibitory Activity and Lipid-Lowering Mechanisms of *Moringa oleifera* Leaf Extract, *Eur. Rev. Med. Pharmacol. Sci.*, 15, 803-808.
- Akinyeye, A.J., Solanke, E.O., & Adebisi, L.O., 2014, Phytochemical and Antimicrobial Evaluation of Leaf and Seed of *Moringa oleifera* Extracts, *IJRMHSI*, 4(6).
- Al-Malki, A.L., & El Rabey, H.A., 2015, The Antidiabetic Effect of Low Doses of *Moringa oleifera* Lam Seeds on Streptozotocin Induced Diabetes and Diabetic Nephropathy in Male Rats, *BioMed. Res. Int.*, 13.
- Andrew, O., Yusuf, S., Jangabe, L.M., Lawal, B.S., & Adamu, A.A., 2013, α -Glucosidase Inhibitory Potential of Selected Anti-Diabetic Plants Used in North-Western Nigeria, *J. Med. Plants Res.*, 2010-2018.
- Anonim, 1996, *Sigma Quality Control Test Procedure : Enzymatic Assay of α -Glucosidase*, Sigma-Aldrich, Missouri.
- Anonim, 2005, *Pharmaceutical Care untuk Penyakit Diabetes Mellitus*, Departemen Kesehatan RI, 16, Jakarta.
- Anonim, 2010, *Riset Kesehatan Dasar (Riskesdas) 2010*, Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI, Jakarta.
- Anonim, 2014, *Situasi dan Analisis Diabetes*, Pusat Data dan Informasi Kementerian Kesehatan RI, Jakarta Selatan.
- Bosenberg, L.H., 2008, The Mechanism of Action of Oral Antidiabetic Drugs : A Review of Recent Literature, *J. Endocrinol Diabetes Mellit.*, 13(3), 80-88.
- Budiman, A., 2011, Isolasi Enzim α -Glukosidase dari Gabah (*Oryza sativa* var. Ciherang), *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Indonesia, Depok.
- Champe, P., Harvey, R., & Ferrier, D., 2010, *Lippincott's Illustrated Reviews : Biochemistry (Ed.3)*, Wolters kluwer, London.
- Colowick, S.P., & Kaplan, N.O., *Methods in Enzymology vol 1*, Academic Press Inc., Publishers, New York.
- Coman, C., Rugina, O.D., & Socaciu, C., 2012, Plants and Natural Compounds with Antidiabetic Action, *Not Bot Horti Agrobo*, 40(1), 314-325.
- Corwin, E.J., 2001, *Buku Saku Patofisiologi.Ter.*, (diterjemahkan oleh Brahm U. Pedit), Penerbit Buku Kedokteran EGC, Jakarta.
- Dawson, R.M.C., 1986, *Data for Biochemical Research, 3rd edition*, Oxford University Press, New York.

- De Padua, L.S., Bunyapiaphatsara, N., & Lemmens, R.H.M.J., 1999, *Plant Resources of South-East Asia: Medicinal and Poisonous Plants 1*, Prosea Foundation, Bogor.
- Dipiro, J.T., Robert, L.T., Gary, C.Y., Gary, R.M., Barbara, G.W., & Posey, L.M., 2005, *Pharmacotherapy a Pathophysiologic Approach*, McGraw-Hill Companies, Inc., New York.
- Elekofehinti, O.O., Adanlawo, I.G., & Fakoya, A., 2012, *Solanumanguivi* Saponin Inhibit Basal Erythropoiesis in *Rattusnovergicus*, *AJPHS*, 2.
- Fadillah, R.U., 2014, Antidiabetic Effect of *Morinda citrifolia L.* as a Treatment of Diabetes Mellitus, *J. Majority* 3 (7), 107.
- Fahey, J.W., 2005, *Moringa oleifera* : A Review of The Medical Evidence for Its Nutritional, Therapeutic, and Prophylatic Properties, *TFLJ*, 1, 5.
- Farooq, F., Rai, M., Tiwari, A., Khan, A.A., & Farooq, S., 2012, Medicinal Properties of *Moringa oleifera* : An Overview of Promising Healer, *J. Med. Plants Res.*, 6(27), 4368-4374.
- Grubben, G.J.H., 2004, *Plant Resources of Tropical Africa 2 Vegetables*, PROTA Foundation, Belanda.
- Gupta, R., Mathur, M., Bajaj, V.K., Katariya, P., Yadav, S., Kamal, R., & Gupta, R.S., 2012, Evaluation of Antidiabetic and Antioxidant Activity of *Moringa oleifera* in Experimental Diabetes, *J. Diabetes*, 4(2), 164-171.
- Guo L.P., Jiang T.F., Lv Z.H., & Wang Y.H., 2010, Screening Alpha-Glucosidase Inhibitors from Traditional Chinese Drugs by Capillary Electrophoresis with Electrophoretically Mediated Microanalysis, *J. Pharm. Biomed. Anal.*, 53, 1250-1253.
- Harborne, J.B., 1987, *Metode Fitokimia Penuntun Cara Modern Mengekstraksi Tumbuhan*, (diterjemahkan oleh : Padmawinata, K., & Soediro, I.), Penerbit ITB, Bandung.
- Heinrich, M., Barnes, J., Gibbons, S., & Williamso, E.M., 2004, *Fundamental of Pharmacognosy and Phytotherapi.*, Elsevie, Hungaria.
- Istiqomah, 2013, Perbandingan Metode Maserasi dan Sokletasi terhadap Kadar Piperin Buah Cabe Jawa (*Piperis retrofracti fructus*), *Skripsi*, Fakultas Kedokteran dan Ilmu Kesehatan, UIN Syarif Hidayatullah, Jakarta.
- John, M.F.A, 2006, Klasifikasi dan Kriteria Diagnosis Diabetes Melitus yang Baru, *CDK*, 127, 37-40.
- Johnson, K.S., 2005, Plant Phenolics Behave as Radical Scavengers in The Context of Insect (*Manduca sexta*) Hemolymph and Midgut Fluid, *J. Agric. Food Chem.*, 53, 26, 10120-10126.
- Kardika, I.B.W., Herawati, S., & Yasa, I.W.P.S, 2007, *Preanalitik dan Interpretasi Glukosa Darah untuk Diagnosis Diabetes Melitus*, Bagian

Patologi Klinik Fakultas Kedokteran Universitas Udayana Rumah Sakit Umum Pusat Sanglah, Bali.

- Kim, K.Y., Nam, K.A., Kurihara, H., & Kim., S.M., 2008, Potent α -Glucosidase Inhibitors Purified from The Red Alga *Grateloupia elliptica*, *Phytochemistry* 69, 2820-2825.
- Kimura, A., 2000, Molecular anatomy of α -glucosidase, *Trends Glycosci. Glyc.*, 12(68), 373-380.
- Kita, A., Matsui, H., Somoto, A., Kimura, A., Takata, M., & Chiba, S., 1991, Substrate Specificity and Subsite Affinities of Crystalline α -Glucosidase from *Aspergillus niger*, *Agric. Biol. Chem.*, 55 (9), 2327-2335.
- Lehninger, A. L., 1982, *Principles of Biochemistry*, Worth Pub, New York.
- Longo, D., 2011, *Harrison's Principles of Internal Medicine 18th ed*, McGraw-Hill, New York.
- Loranza, B., 2012, Uji Penghambatan Aktivitas Enzim Alfa-Glukosidase dan Identifikasi Golongan Senyawa Kimia dari Fraksi Teraktif Daun Buni, (*Antidesma bunius L.*), *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Indonesia, Depok.
- Luo, L., Wang, R., Wang, X., Ma, Z., & Li, N., 2012, Compounds from *Angelica keiskei* with NQO1 Induction, DPPH Scavenging and α -Glucosidase Inhibitory Activities, *Food Chem.*, 131, 992-998.
- Markham, K.R., 1988, *Cara Mengidentifikasi Flavonoida*, (diterjemahkan oleh : Padmawinata, K.), ITB Press, Bandung.
- Marugan, J.J., Zheng, W., Motabar, O., Southall, N., Goldin, E., Sidransky, E., Aungst, R.A., Liu, K., Sadhukhan, S.K., & Austin, C.P., 2010, Evaluation of 2-Thioxo-2,3,5,6,7,8-Hexahydropyrimido[4,5-d]Pyrimidin-4(1H)-One Analogues as GAA Activators, *Eur. J. Med. Chem.*, 45(5), 1880-1897.
- Matsumoto, K., Takemata, K., Takayama, K., Abesundara, K.J.M., Matsui, T., & Katayama, H., 2002, A Novel Method for The Assay of α -Glucosidase Inhibitory Activity Using A Multi-Channel Oxygen Sensor, *Anal. Sci.*, 18, 1315-1319.
- Mohan, C., 2003, *Calbiochem : Buffers*, EMD Biosciences, Inc., Germany.
- Novindar, M., 2010, Uji Aktivitas Antioksidan Sirup Berbahan Dasar Rosela (*Hibiscus sabdariffa*), *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Pendidikan Indonesia, Bandung.
- Murray, R.K., Granner, D.K., & Rodwell, V.W., 2009, *Biokimia Harper edisi 27* (diterjemahan oleh Brahm, U. Pendit), Penerbit Buku Kedokteran EGC, Jakarta.
- Nakai, dkk, 2007, Multiple Forms of α -Glucosidase in Rice Seeds (*Oryza sativa L.*, var Nipponbare), *Biochimie.*, 89, 49-62.

- Ndong M., Uehara, M., Katsumata, S., Sato, S., & Suzuki, K., 2007, Preventive Effects of *Moringa oleifera* (Lam) on Hyperlipidemia and Hepatocyte Ultrastructural Changes in Iron Deficient Rats, *Biosci. Biotechnol. Biochem.*, 71, 1826–1833.
- Nelson, D. & Cox, M., 2000, *Lehninger principles of biochemistry*, Worth, New York.
- Palmer, T., 1991, *Understanding Enzymes 3rd ed*, Ellis Horwood Limited, West Sussex.
- Putra, G.P.G., 2009, Penentuan Kinetika Enzim Poligalakturonase (PG) Endogenous dari Pulp Biji Kakao, *J. Biologi Indones.*, 1, 21-24.
- Rachmawati, A.M., Bahrin, U., Rusli, B., & Hardjoeno, 2007, *Tes Diabetes Melitus*, Lembaga Pendidikan Universitas Hasanudin, Makasar.
- Risma, D., 2012, Isolasi dan Karakterisasi Enzim α -Glukosidase dari Beras Lapuk (*Oryza sativa*), *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Indonesia, Depok.
- Rohyani, I.S., Aryanti, E., & Suropto, 2015, Kandungan Fitokimia Beberapa Jenis Tumbuhan Lokal yang Sering Dimanfaatkan sebagai Bahan Baku Obat di Pulau Lombok, *PROS. SEM. NAS. MASY. BIODIV. INDON.*, 1(2), 388-391.
- Roloff, A., Weisgerber, H., Lang, U., & Stimm, B., 2009, *Moringa oleifera Lam*, WILEY-VCH Verlag GmbH & Co. KgaA, Weinheim.
- Sankhalkar, S., & Vernekar, V., 2016, Quantitative and Qualitative Analysis of Phenolic and Flavonoid Content in *Moringa oleifera Lam* and *Ocimum tenuiflorum L.*, *Pharmacognosy Res.*, 8(1), 16-21.
- Shinde, J., Taldone, T., Barletta, M., Kunaparaju, N., Bo, H., & Kumar, S., 2008, α -Glucosidase Inhibitory Activity of *Syzygium cumini* (Linn.) Skeels Seed Kernel In Vitro and In Goto-Kakizaki (GK) Rats, *Carbohydr. Res.*, 343, 1278-1281.
- Si, Mei-Mei, Lou, J., Shena, J., Wua H., & Bo Yanga, 2010, Insulin Releasing and α -Glucosidase Inhibitory Activity of Ethyl Acetate Fraction of *Acorus calamus* In Vitro and In Vivo, *J. Ethnopharmacol.*, 154-159.
- Sirait, M., 2007, *Penuntun Fitokimia dalam Farmasi*, Penerbit ITB, Bandung.
- Sugiwati, S., Kardono, L.B.S., & Bintang, M., 2006, α -Glucosidase Inhibitory Activity and Hypoglycemic Effect of *Phaleria macrocarpa* Fruit Pericarp Extracts by Oral Administration to Rats, *J. Appl. Sci.*, 6(10), 2312-2316.
- Tahrani, A., & Barnett, A., 2010, Dapagliflozin: A Sodium Glucose Cotransporter 2 Inhibitor in Development for Type 2 Diabetes, *Diabetes Ther.*, 1(2), 45-56.
- Tende, J.A., Ezekiel, I., Dikko, A.A.U., & Goji, A.D.T., 2011, Effect of Ethanolic Leaves Extract of *Moringa oleifera* on Blood Glucose Levels of

Streptozocin-Induced Diabetics and Normoglycemic Wistar Rats, *Br. J. Pharmacol.*, 2(1), 1-4.

Venkataraman, K., 1962, *Methods for Determinating The Structure of Flavonoid Compound*, in Geissman, T.A (Ed), *The Chemistry of Flavonoid Compound*, The Mac Millan Company, New York.

Voet, D. & Voet, J.G., 2008, *Biochemistry*, John Wiley and Sons Inc., New York.

Yamamoto, K., Nakayama, A., Yamamoto, Y., & Tabata, S., 2004, Val216 Decides The Substrate Specificity of Alpha-Glucosidase in *Saccharomyces cerevisiae*, *Eur. J. Biochem.*, 271 (16), 3414-3420.

Yamasaki, Y. & Haruyoshi, K., 1992, Wall-Bound α -Glucosidase of Suspension-Cultured Sugar-Beet Cells, *Phytochemistry*, 31, 2605-2607.

Zhang, J.F., Zheng, Y.G., & Shen, Y.C., 2007, Inhibitory Effect of Valienamine on the Enzymatic Activity of Honeybee (*Apis cerana Fabr.*) α -Glucosidase, *Pest. Biochem. Physiol.*, 87, 73-77.

Zulkarnain, 2008, Efektifitas Biji Kelor (*Moringa oleifera*) dalam Mengurangi Kadar Kadmium (II), *Skripsi*, Fakultas Sains dan Teknologi, Universitas Islam Negeri Malang, Malang.