

## DAFTAR PUSTAKA

- Atun, S., 2014. Metode Isolasi dan Identifikasi Struktur Senyawa Organisasi Bahan Alam. *Jurnal Konservasi Cagar Budaya Borobudur* Vol 8, No. 2, Hal 53-61.
- Balasubramanyam, M., Koteswari, A.A., Kumar, R.S., Monickaraj, F., Maheswari, J.U., and Mohan, V., 2003, Curcumin-induced inhibition of cellular reactive oxygen species generation : Novel therapeutic implications, *J. Biosci.*, 28, 6, 715-721.
- Barthelemy, S., L. Vergnes, M. Moynier, D. Guyot, Labidalle, and E. Bahraoui. 1998. Curcumin and curcumin derivatives inhibit Tat-mediated transactivation of type 1 human immunodeficiency virus long terminal repeat. *Research in Virology* 149: 43-52.
- Bourne, K.Z., N. Bourne, S.F. Reising, and L.R. Stanberry. 1999. Plant product as topical icrobicide candidates: assesment of *in vitro* and *in vivo* activity against herpes virus type-2. *Antiviral Research* 42 (3): 219-226.
- Chattopadhyay, Biswas, Bandyopadhyay, Banerjee. 2004. Turmeric and curcumin : Biological actions and medicinal applications. *Cur. Sci.*, 87, 44-53.
- Cooper, G.M., 2001. *The Cell a Molecular Approach, Second edition*. Washington, D.C : ASM. Press.
- Copriady, J., Yasmi E., Hidayati. 2005. Isolasi Dan Karakterisasi Senyawa Kumarin Dari Kulit Buah Jeruk Purut (*Citrus hystrix* Dc). *Jurnal Biogenesis* Vol. 2(1):13-15,
- Dachriyanus. 2004. Analisis Struktur Senyawa Organik Secara Spektroskopi. Cetakan I. Padang: Andalas University Press.
- Doyle, M.P. & Mungall, W.S., 1980. *Experimental of Organic Chemistry*, John Wiley and Sons, New York.
- Fahrerozi, 2008, Pengaruh Jumlah Mol Pereaksi Pada Sintesis Senyawa GVT-0 Dengan Pelarut Etanol Dan Uji Sitotoksiknya Terhadap Sel Hela, *Skripsi*, Fakultas Farmasi universitas Gadjah Mada. Yogyakarta.
- Fessenden, R.J., dan Fessenden, J.S., 1999. Kimia Organik Jilid 2. Alih Bahasa oleh Pudjaatmaka A.H., Jakarta : Penerbit Erlangga.
- Gandjar, Ibnu Ghilis dan Rohman, Abdul. 2007. Kimia Farmasi Analisis. Yogyakarta: Putaka Pelajar.
- Giwangkara, EG. 2007. Spektrofotometri Inframerah. Situs Kimia Indonesia. *Chem-is-try.org*

- Hadi, I., 2015, Optimasi Kadar Katalis Asam pada Sintesis Senyawa Antikanker Gamavuton-0 (GVT-0) Menggunakan Regresi Polinomial Orde Dua. *Skripsi*, Universitas Muhammadiyah Yogyakarta, Yogyakarta.
- Harimurti, S., Nugroho, W., S., Pramono, A., 2019. Energy Savings on Curcumin Derivative Gamavuton-0 Synthesis Using Microwave Irradiation. *International Journal of Applied Pharmacuetics*, Vol 11, Issue 3, 155-158.
- Hostettmann, K., Hostettmann, M. dan Marston, A. 1995. Cara Kromatografi Preparatif. Diterjemahkan oleh Kosasih Padmawinata. Bandung : Penerbit ITB. Halaman 9-11, 33.
- Isaacs, C.E., Litov, R.E., 1995. Antimicrobial Activity of Lipids Added to Human Milk, Infant Formula and Bovine Milk. *The Journal of Nutritional Biochemistry*, 6: 362–366.
- Kealey, D. dan Haines, P. J., 2002, Instant Notes: *Anal. Chem.*, BIOS Scientific Publishers Limited, New York.
- Komarudin. 2017. Aplikasi *Response Surface Methodology* pada Optimasi Sintesis Gamavuton-0 (GVT-0) Sebagai Senyawa Antikanker. *Skripsi*, Universitas Muhammadiyah Yogyakarta, Yogyakarta.
- Majeed, M., Badmaev, V., Shirakumar, U., and Rajendran, R., 1995. *Curcuminoids Antioxidant Phytonutrient*, 3-80, NutriScience Publisher Inc., PisCataway, New Jersey.
- Mathias, O., Hamburger, and Geoffrey, A.C. 1987. A direct bioautographic assay for compounds possessing antibacterial activity. *Journal of Natural Products*, Vol. 50(1): 19 – 22
- Mazumder, A., N. Neamati, S. Sunder, J. Schultz, H. Pertz, E. Eich, and Y. Pommier. 1997. Curcumin analogs with altered potencies against HIV-1 integrase as probes for biochemical mechanisms of drug action. *Journal of Medicinal Chemistry* 40: 3057-3063.
- Meiyanto, E., 1999, Kurkumin Sebagai Obat Antikanker : Menelusuri Mekanisme Aksinya, *Majalah Farmasi Indonesia*, 10 (4), 224-236.
- Mutiah, R., 2015. Evidence Based Kurkumin dari Tanaman Kunyit (Curcuma longa) sebagai Terapi Kanker pada Pengobatan Modern. *Jurnal Farma Sains* Vol. 1 (1), 28-41.
- Nuari, S., Anam, S., Khumaidi, A., 2017. Isolasi dan Identifikasi Senyawa Flavonoid Ekstrak Etanol Buah Naga Merah (*Hylocereus polyrhizus* (F.A.C.Weber)Briton & Rose). *Galenika Journal of Pharmacy* 2017; 2 (2) : 118-25.

- Nugroho, A.E., Supardjan, A.M., Hakim, L., Istyastono, E.P. and Yuniarti, N., 2004, Sintesis dan Uji Aktivitas Biologis Senyawa-senyawa Baru Turunan 1,5-bis(4'-hidroksi-3'-metoksifenil)-1,4-pentadien-3-on, Laporan Penelitian, Fakultas Farmasi Universitas Gadjah Mada, Jogjakarta.
- Nugroho, A.E., Sardjiman, Maeyama K., 2009. Efek Sitotoksik dan Antiploriferasi dari Gamavuton-0 pada Kultur Sel Leukimia Basofilik Tikus. *Majalah Farmasi Indonesia*, 20(2).
- Orbayinah S., Ismadi M., dan Oetari., 2003, Kemampuan Menghambat dan Sifat Hambatan Analog Kurkumin Terhadap Aktivitas Enzim Siklooksigenase. Sains Kesehatan, *Majalah Berkala Penelitian Pascasarjana Ilmu-ilmu Kesehatan Universitas Gajah Mada*, 6 (1): 29-39.
- Pabon, H. J. J., 1964, A Synthesis of curcumin and related compounds. *Recl. Trav. Chem.*, 23, 379-386 cit Supardjan, dan Da'i, Muhammad. 2005. Hubungan struktur dan aktivitas sitotoksik turunan kurkumin terhadap sel Myeloma. Skripsi. Gadjah Mada University. Yogyakarta.
- Primadi, O., 2015. Buletin Jendela Data dan Informasi Kesehatan. Jakarta : Kementerian Kesehatan Republik Indonesia.
- Raflizar dan Nainggolan, O., 2010. Faktor Determinan Tumor/Kanker Kulit di Pulau Jawa (Analisis Data Riskesdas 2007). *Buletin Penelitian Sistem Kesehatan*. Vol. 13 No. 4, 386-393
- Rao M.N.A. 1997. Antioxidant properties of curcumin, In: Pramono, S., U.A. Jenie, S.S. Retno, and G. Didik (eds.). *Proceedings of the International Symposium on Curcumin Pharmacochemistry (ISCP)*, 39-47. Yogyakarta: Faculty of Pharmacy Gadjah Mada University.
- Rifai, M., A., 2017. Pengaruh Waktu Pemanasan terhadap Rendemen yang Dihasilkan pada Sintesis Senyawa Antikanker Gamavuton-0 (GVT-0). *Skripsi*, Universitas Muhammadiyah Yogyakarta, Yogyakarta.
- Safitri, C.I.N.H., Ritmaleni, Rintiswati, N., Sardjiman, Kaneko, T., 2017. Antimycrobacterial Activity of Benzylidene Acetone Analogues on Curcumin Against Resistant And Sensitive Mycobacterium Tuberculosis. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*. Volume 16, Issue 12 Ver. VI (Dec. 2017), PP 21-26
- Sajithlal, G.B., P. Chithra, and G. Chandrakasan. 1998. Effect of curcumin on the advanced glication and gross-linking of collagen in diabetic rats. *Biochemical Pharmacology* 15:56 (12): 1607-1614.

- Salim,M., Susanto, A., Stefanus D., 2014, Terapi Nanopartikel Albumin Kurkumin Atasi Kanker Payudara Multidrug Resistant, *CDK-220*, 41 (9), 711.
- Sardjiman, 2000, Synthesis of Some New Series of Curcumin Analogues, Antioxydative, Antiinflammatory, Antibacterial Activities and Quantitative Structure Activity Relationship. *Dissertation*. Universitas Gadjah Mada. Yogyakarta.
- Sardjiman., M.R. Samhoedi, L. Hakim, H. van der Goot, H. Timmerman. 1997. 1,5-Diphenyl-1,4-pentadiene-3-ones and cyclic analogues as antioxidative agents. Synthesis and structure-activity relationships. In: Pramono, S., U.A. Jenie, S.S. Retno, and G. Didik (eds.). *Proceedings of the International Symposium on Curcumin Pharmacochemistry (ISCP)*, 175-185.
- Sastrohamidjojo, Hardjono. 2001. Kimia Dasar. Universitas Gajah Mada Press. Yogyakarta.
- Tjay, T.H., dan Rahardja, K., 2007. Obat-obat penting : Khasiat, Kegunaan, dan Efek-Efek Sampingnya, Edisi keenam. Jakarta : PT Elex Media Komputindo.
- Tonnesen, H. H., 2002. Solubility, chemical and photochemical stability of curcumin in surfactant solutions. *Pharmazie* 57 (12): 820-824
- Tonnesen, H.H., and J.V. Greenhill. 1992. Studies on curcumin and curcuminoids. XXII: Curcumin as a reducing agent and as a radical scavenger. *International Journal of Pharmaceutics* 87: 79-87.
- Trihono, 2013, Riset Kesehatan Dasar, Laporan Penelitian, badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI, Jakarta.
- Van der Goot H. 1997. The chemistry and qualitative structure-activity relationship of curcumin. In: Pramono, S., U.A. Jenie, S.S. Retno, and G. Didik (eds.). *Proceedings of the International Symposium on Curcumin Pharmacochemistry (ISCP)*, 13-27. Yogyakarta: Faculty of Pharmacy Gadjah Mada University.
- Wang, Y.J., Pan, M.H., Cheng, A.L., Lin, L.I., Ho, Y.S., Hsieh, C.Y., dan Lin, J.K., 1996. Stability of Curcumin in Buffer Solution and Characterization of Its Degradation Products. *J. Pharm. Biomed. Anal.* 15 (12):1867-1876.
- Wijaya, D.P., 2015, Optimasi Perbandingan Starting Material pada Sintesis Senyawa Antikanker Gamavuton-0 (GVT-0) Menggunakan Regresi Polinomial Orde 2. *Skripsi*, Universitas Muhammadiyah Yogyakarta, Yogyakarta.

- Wulandari, L., 2011. Kromatografi Lapis Tipis. Jember : Taman Kampus Presindo
- Youssef, K.M. and El-Sherbeny, M.A., 2005, Synthesis and Antitumor Activity of Some Curcumin Analogs, *Arch. Pharm. Chem. Life Sci.*, 338, 181-189.