

DAFTAR PUSTAKA

- Anderson, R.J., Bendell, D.J., and Groundwater, P.W. 2004. *Organic Spectroscopic Analysis (Vol. 22)*. Royal Society of Chemistry.
- Azizah, Z., dan Wati, S.W. 2018. Skrining Fitokimia dan Penetapan Kadar Flavonoid Total Ekstrak Etanol Daun Pare (*Momordica charantia* L.). *Jurnal Farmasi Higea*. 10. (2): 163-172.
- Basch, E., Gabardi, S., and Ulbricht, C. 2003. Bitter Melon (*Momordica charantia*): A Review of Efficacy and Safety. *American Journal of Health-System Pharmacy*. 60. (4): 356-359.
- Begum, S., Ahmed, M., Siddiqui, B.S., Khan, A., Saify, Z.S., and Arif, M. 1997. Triterpenes, A Sterol and A Monocyclic Alcohol from *Momordica charantia*. *Phytochemistry*. 44. (7): 1313-1320.
- Cooper, R., and Nicola, G. 2014. *Natural Products Chemistry: Sources, Separations and Structures*. CRC press.
- Darusman, I.L.K., dan Batubara, I. 2019. *Domestikasi Buah Merah*. Bogor: PT Penerbit IPB Press.
- Day, R.A., and Underwood, A.L. 2002. *Analisis Kimia Kuantitatif Edisi Keenam*. Jakarta: Erlangga.
- Departemen Kesehatan Republik Indonesia. 1989. *Materia Medika Indonesia Jilid V*. Jakarta.
- Departemen Kesehatan Republik Indonesia. 2008. *Farmakope Herbal Indonesia edisi I*. Jakarta.
- Departemen Kesehatan Republik Indonesia. 2017. *Farmakope Herbal Indonesia edisi II*. Jakarta.
- EMA (European Medicines Agency Post-authorisation Evaluation of Medicines for Human Use). 2008. Reflection Paper on Markers Used for Quantitative and Qualitative Analysis of Herbal Medicinal Products and Traditional Herbal Medicinal Products. *Committee On Herbal Medicinal Products (HMPC)*.
- Gandjar, I.G., dan Rohman, A. 2007. *Kimia Farmasi Analisis*. Yogyakarta: Pustaka Pelajar.

- Grover, J.K., and Yadav, S.P. 2004. Pharmacological Actions and Potential Uses of *Momordica charantia*: A Review. *Journal of Ethnopharmacology*. 93. (1): 123-132.
- Hahn-Deinstrop, E. 2007. *Applied Thin-Layer Chromatography: Best Practice and Avoidance of Mistakes*. John Wiley and Sons.
- Hanani, E. 2015. *Analisis Fitokimia*. Jakarta: EGC.
- Harborne, J.B. 1984. *Phytochemical Methods A Guide to Modern Techniques of Plant Analysis, Second Edition*. London: Chapman and Hall.
- Harinantenaina, L., Tanaka, M., Takaoka, S., Oda, M., Mogami, O., Uchida, M., and Asakawa, Y. 2006. *Momordica charantia* Constituents and Antidiabetic Screening of the Isolated Major Compounds. *Chemical and Pharmaceutical Bulletin*. 54. (7): 1017-1021.
- Higson, S. 2004. *Analytical Chemistry*. Oxford University Press.
- Hussein, R.A., and El-Anssary, A.A. 2019. Plants Secondary Metabolites: The Key Drivers of The Pharmacological Actions of Medicinal Plants. *Herbal Medicine*, 1, 13.
- Leba, M.A.U. 2017. *Buku Ajar: Ekstraksi dan Real Kromatografi*. Yogyakarta: Deepublish.
- Maghfoer, M.D., Yurlisa, K., Aini, N., dan Yamika, W. S. D. 2019. *Sayuran Lokal Indonesia: Provinsi Jawa Timur*. Universitas Brawijaya Press.
- Mutiara, E.V., dan Wildan, A. 2014. Ekstraksi Flavonoid dari Daun Pare (*Momordica charantia* L.) Berbantu Gelombang Mikro sebagai Penurun Kadar Glukosa secara In Vitro. *Metana*. 10. (01): 1-11.
- Najib, A. 2018. *Ekstraksi Senyawa Bahan Alam*. Yogyakarta: Penerbit Deepublish.
- Ng, T.B., Chan, W.Y., and Yeung, H.W. 1992. Proteins with Abortifacient, Ribosome Inactivating, Immunomodulatory, Antitumor and Anti-AIDS Activities from Cucurbitaceae plants. *General Pharmacology: The Vascular System* 23. (4): 575-590.
- Noviyanto, F. 2020. *Penetapan Kadar Ketoprofen dengan Metode Spektrofotometri UV-Vis*. Bandung: Media Sains Indonesia.
- Pavia, D.L., Lampman, G.M., Kriz, G.S., and Vyvyan, J.A. 2014. *Introduction to Spectroscopy*. Cengage Learning.

- Prayoga, T., dan Lisnawati, N. 2020. *Ekstrak Etanol Daun Iler (Coleus atropurpureus [L.] Benth)*. Surabaya: Jakad Media Publishing.
- Rachmawati, S., Adiwinata, G., Murdiati, T.B., dan Sulistianingsih, T. 2001. Kandungan Kimia Daun Pare (*Momordica charantia* Linn) dan Efek Antelmintik terhadap Cacing Lambung (*Haemonchus contortus* Rudolphi). *Seminar Nasional Teknologi Peternakan dan Veteriner 2001*. 722-729.
- Raman, A., and Lau, C. 1996. Anti-diabetic Properties and Phytochemistry of *Momordica charantia* L. (Cucurbitaceae). *Phytomedicine*. 2. (4): 349-362.
- Saidi, N., Ginting, B., Murniana dan Mustanir. 2018. *Analisis Metabolis Sekunder*. Syiah Kuala University Press.
- Saifudin, A., Teruna, H.Y., dan Rahayu, V. 2011. *Standardisasi Bahan Obat Alam*. Yogyakarta: Graha Ilmu.
- Saifudin, A. 2014. *Senyawa Alam Metabolit Sekunder Teori, Konsep, dan Teknik Pemurnian*. Yogyakarta: Deepublish.
- Sherma, J., and Fried, B. (Eds.). 2003. *Handbook of Thin-Layer Chromatography*. CRC Press.
- Shivanagoudra, S.R., Perera, W.H., Perez, J.L., Athrey, G., Sun, Y., Jayaprakasha, G.K., and Patil, B.S. 2019. Cucurbitane-type Compounds from *Momordica charantia*: Isolation, in Vitro Antidiabetic, Anti-inflammatory Activities and in Silico Modeling Approaches. *Bioorganic chemistry*, 87, 31-42.
- Sovia, E., dan Yuslianti, E. R. 2015. Skrining Fitokimia dan Efek Hipoglikemik Ekstrak Etanol Daun Peria (*Momordica charantia*). *Prosiding Snija 2015*. ISBN 978-602-70361-1-6.
- Subahar, T., dan Lentera, T. 2004. *Khasiat dan Manfaat Pare: Si Pahit Pembasmi Penyakit*. Cetakan Pertama. Argo Media Pustaka. Jakarta.
- Tiwari, R., and Rana, C.S. 2015. Plant Secondary Metabolites: A Review. *International Journal of Engineering Research and General Science*, 3(5), 661-670.
- Upadhyay, A., Agrahari, P., and Singh, D.K. 2015. A Review on Salient Pharmacological Features of *Momordica charantia*. *International Journal of Pharmacology*, 11(5), 405-413.

- Waksmundzka-Hajnos, M., Sherma, J., and Kowalska, T. (Eds.). 2008. *Thin Layer Chromatography in Phytochemistry*. CRC Press.
- Yadav, L.D.S. 2005. *Organic Spectroscopy*. Springer Science & Business Media.
- Yanlinastuti, Y., dan Fatimah, S. 2016. Pengaruh Konsentrasi Pelarut untuk Menentukan Kadar Zirkonium Dalam Paduan U-zr dengan Menggunakan Metode Spektrofotometri UV-vis. *Pengelolaan Instalasi Nuklir*, 9(17), 156444.
- Yasni, S. 2013. *Teknologi Pengolahan dan Pemanfaatan Produk Ekstraktif Rempah*. Bogor: PT Penerbit IPB Press.
- Yuda, I.K.A., Anthara, M.S., dan Dharmayudha, A.A.G.O. 2013. Identifikasi Golongan Senyawa Kimia Ekstrak Etanol Buah Pare (*Momordica charantia*) dan Pengaruhnya terhadap Penurunan Kadar Glukosa Darah Tikus Putih Jantan (*Rattus novvergicus*) yang Diinduksi Aloksan. *Buletin Veteriner Udayana*. 5. (2): 2085-2495.
- Zhang, Q.W., Lin, L.G., and Ye, W.C. 2018. Techniques for Extraction and Isolation of Natural Products: A Comprehensive Review. *Chinese medicine*, 13(1), 1-26.

LAMPIRAN

Dokumentasi Penelitian



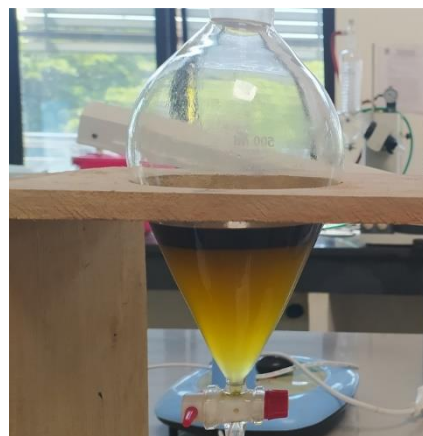
Gambar 8. Ekstraksi dengan metode maserasi



Gambar 9. Penyaringan menggunakan vakum



Gambar 10. Penguapan menggunakan *rotary evaporator*



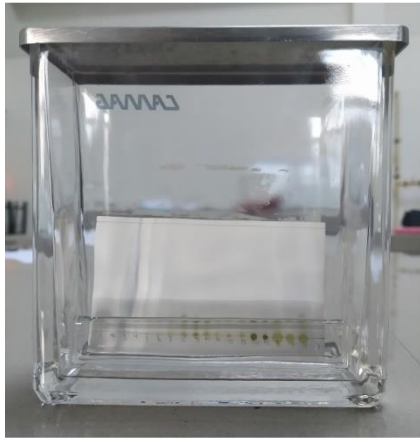
Gambar 11. Partisi ekstrak cair-cair



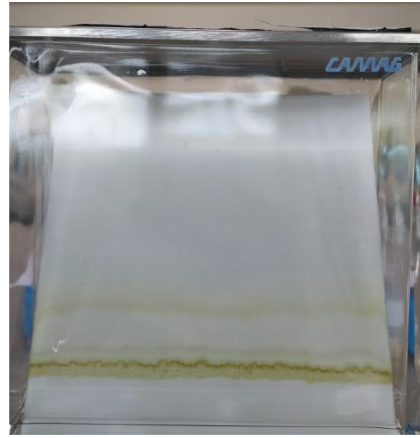
Gambar 12. Pengelusan untuk penentuan senyawa penanda



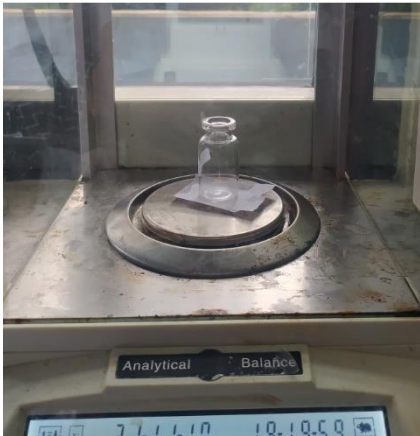
Gambar 13. Kromatografi kolom cair vakum



Gambar 14. Pengelusan hasil kromatografi kolom cair vakum



Gambar 15. Pengelusan KLTP



Gambar 16. Penimbangan isolat



Gambar 17. Identifikasi golongan senyawa



Gambar 18. Spektrofotometer Uv-Vis



Gambar 19. Spektrofotometer infra merah