

## DAFTAR PUSTAKA

- Bagde, S. A., Upadhye, K. P., Dixit, G. R., Bakhle, S. S. (2016). Formulation and Evaluation of Co-Crystals of Poorly Water Soluble Drug. *International Journal of Pharmaceutical Sciences and Research*, 7(12), 4988-4997.
- Dachriyanus. (2004). *Analisis Struktur Senyawa Organik Secara Spektroskopi*. Padang : Andalas University Press.
- Dadi, M and Yasir, Mohd. (2022). Spectroscopy and Spectrophotometry: Principles and Applications for Colorimetric and Related Other Analysis. 10.5772/intechopen.101106.
- Dalvi, P., Gerange, A., Ingale, P. (2015). Solid Dispersion: Strategy To Enhance Solubility. *Journal Of Drug Delivery And Therapeutics*, 5(2), 20-28.
- Devhare, L., Kore, P. K. (2016). A Recent Review on Bioavailability and Solubility Enhancement of Poorly Soluble Drugs by Physical and Chemical Modifications. *Research Chronicle in Health Sciences*, 2(5), 299-308.
- Felton, L. A. (Ed.). (2012). *Remington Education: Physical Pharmacy*. US: Pharmaceutical Press.
- Fitriani, L., Afriyanti, I., Afriyani., Ismed, F., & Zaini, E. (2018). Solid Dispersion of Usnic Acid–HPMC 2910 Prepared by Spray Drying And Freeze Drying Techniques. *Oriental Journal of Chemistry*, 34(4), 2083-2088.
- Fitriani, L., Tirtania, S., Umar, S., & Zaini, E. (2024). Enhancing The Solubility And Dissolution Rate Of Piperine Via Preparation Of Piperine–Hydroxypropyl Methylcellulose 2910 Solid Dispersion System Using Freeze-Drying Method. *Journal of Pharmacy & Pharmacognosy Research*, 12(1), 175-183.
- Guarve, K., & Kriplani, P. (2021). HPMC-A Marvel Polymer for Pharmaceutical Industry-Patent Review. *Recent Advances In Drug Delivery And Formulation*, 15(1), 46–58.
- Gupta, D K., Negi, R., Kala, S., Juyal, D., Geeta, R. (2014). A Review On Solid Dispersion: A Modern Formulation Approach In Drug Delivery System. *Journal of Applied Pharmaceutical Research*, 2(4), 27-32.
- Habibi, N. A., Fathia, S., dan Utami, C. T. (2019). Perubahan Karakteristik Bahan Pangan pada Keripik Buah dengan Metode *Freeze drying* (Review). *JST (Jurnal Sains Terapan)*, 5(2), 67-76.

- Harmita, (2015). *Analisis Fisikokimia: Potensiometri & Spektroskopi*. Jakarta: Penerbit Buku Kedokteran EGC, Jakarta.
- Hilaliyati, N., Ben, E., & Zaini, E. (2017). Peningkatan Laju Disolusi Ketoprofen Dengan Teknik Co-Grinding Menggunakan Polimer Hydroxypropyl Methylcellulose E6. *Jurnal Sains Farmasi & Klinis*, 3(2), 193-201.
- HMDB. (2023). Showing metabocard for 4-Methoxycinnamic acid (HMDB0002040). Diakses dari <https://hmdb.ca/metabolites/HMDB0002040>, pada tanggal 12 Maret 2024.
- Indriyanti, E., Masduqi, A F., Purwaningsih, Y. (2022). Synthesis Of PMCA (P-Methoxy Cinnamic Acid) Using Perkin Reaction And Its Activity As Photo Protective And Antifungal Agent. *JKPK (Jurnal Kimia Dan Pendidikan Kimia)*, 7(2), 138-149.
- Isadiartuti D, Rosita N, Ekowati J, Syahrani A, Ariyani T, Rifqi MA. (2021). The Thermodynamic Study Of P-Methoxycinnamic Acid Inclusion Complex Formation, Using B-Cyclodextrin And Hydroxypropyl-B-Cyclodextrin. *J Basic Clin Physiol Pharmacol*, 32(4): 663-667.
- Isadiartuti, D., Ekowati, J., Noorma, Rosita, Amalia N. R. (2023). The Dissolution Of P-Methoxycinnamic Acid-B-Cyclodextrin Inclusion Complex Produced With Microwave Irradiation. *J Public Health Afr*, 14 (Suppl 1):2500.
- Jessica, A., Agustina, A., & Zaini, E. (2022). Pembentukan dan Karakterisasi Multikomponen Kristal Aseklofenak – Asam Suksinat Dengan Metode Solvent Drop Grinding. *Jurnal Sains Farmasi & Klinis*, 9(Suplemen), 139-145.
- Jessica, A., Sari, E., Yenti, R., & Zaini, E. (2023). Pembentukan dan Karakterisasi Dispersi Padat Kandesartan Sileksetil-HPMC dengan Teknik Solvent Co-Evaporation. *Jurnal Sains Farmasi & Klinis*, 10(1), 71-77.
- Karagianni, A., Malamatari, M., & Kachrimanis, K. (2018). Pharmaceutical Cocrystals: New Solid Phase Modification Approaches for the Formulation of APIs. *Pharmaceutics*, 10(1), 18.
- Kaushik, R., Budhwar, V., Kaushik, D. (2020). An Overview on Recent Patents and Technologies on Solid Dispersion. *Recent Patents on Drug Delivery & Formulation*, 14(1), 63–74.
- Kemenkes RI. (2020). *Farmakope Indonesia Edisi VI*. Jakarta: Kementerian Kesehatan Republik Indonesia.
- Kumar, B. (2017). Solid Dispersion-A Review. *Pharmatutor*, 5(2), 24-29.

- Kumar, S., Singh, P. (2016). Various Techniques For Solubility Enhancement: An Overview. *The Pharma Innovation*, 5(1), 23-28
- Marsora, Astika. 2019. *Kajian Sistem Dispersi Padat Candesartan Cilexetil-Pvp K-30 Menggunakan Metode Pelarutan*. (Skripsi). Padang: Sekolah Tinggi Ilmu Farmasi.
- Martin, A., Swarbrick, J. Cammarata, A. (2008), *Farmasi Fisik Edisi Ketiga*. Jakarta : Penerbit UI Press.
- Mir, K. B., Khan, N. A. (2017). Solid Dispersion: Overview Of The Technology. *Int J Pharm Sci*, 8(6), 2378-2387.
- Nair, A. R., Lakshman, Y. D., Anand, V. S. K., Sree, K. S. N., Bhat, K., Dengale, S. J. (2020). Overview of Extensively Employed Polymeric Carriers in Solid Dispersion Technology. *AAPS PharmSciTech*, 21(8), 1-20.
- Noviza, D., Fitriani, L., dan Fauzi, R. Z. (2018). Dispersi Padat Asam Usnat dengan Teknik Freeze Drying menggunakan Poloxamer 188 sebagai Polimer. *Jurnal Sains Farmasi & Klinis*, 5(1), 41-48
- Pandi, P., Bulusu, R., Kommineni, N., Khan, W., Singh, M. (2020). Amorphous Solid Dispersions: An Update For Preparation, Characterization, Mechanism On Bioavailability, Stability, Regulatory Considerations And Marketed Products. *Int J Pharm*, 1-28.
- Putri, L. E. (2017). “Penentuan Konsentrasi Senyawa Berwarna KMnO<sub>4</sub> Dengan Metoda Spektroskopi UV Visible”. *Natural Science Journal*, 3(1), 391-398
- Rahayyu, A. M., Alita, Z., dan Widjaja, B. (2024). Pengembangan Sistem Dispersi Padat Ezetimibe dengan Matriks PEG 8000 menggunakan Metode Peleburan. *Jurnal Ilmu Farmasi dan Farmasi Klinik*, 21 (1), 123-132.
- Rahmayanti, Dhea. (2021). *Pembentukan dan Karakterisasi Fisikokimia Ko-Amorf Asam Fenofibrat-L-arginin Dengan Metode Liquid-Assisted Grinding*. [Skripsi]. Padang: Univeristas Andalas.
- Ramadhana, A F., Chaerunisa, A Y., Sopyan, I. (2021). Dispersi Padat Sebagai Metode Peningkatan Kelarutan Bahan Obat dalam Tablet : Formulasi dan Karakteristik. *Farmaka*, 19(2), 148-170.
- Rowe, R. C., Sheskey, P. J., Cook, W. C., Fenton, M. E. (2009). *Handbook of Pharmaceutical Excipient 6th edition*. London: The Pharmaceutical Press.

- Sari, Y. N., Zaini, E., Ismed, F. (2019). Peningkatan Laju Disolusi Piperin Dengan Pembentukan Multikomponen Kristal Menggunakan Asam Nikotinat. *Jurnal Sains Farmasi & Klinis*, 6(2), 180–185.
- Setiabudi, A., Hardian, R., Muzakir, A. (2012). *Karakterisasi Material: Prinsip dan Aplikasinya dalam Penelitian Kimia*. Bandung: UPI Press.
- Setyawan, D., Sulistyowaty, M I., Sari, I P., Yusuf , H., and Zaini, E. (2023). The Formation of p-Methoxycinnamic Acid-Caffeine Co-Crystal by the Solution Evaporation Method and its Physicochemical Characterization. *AIP Conference Proceedings*, Vol 2536.
- Shargel L., Wu-Pong S., Yu Andrew B. C. (2012). *Biofarmasetika dan Farmakokinetika Terapan Edisi Kelima*. Diterjemahkan oleh : Budi Suprapti. Surabaya : Penerbit Universitas Airlangga.
- Shin, M. S., Yu, J. S., Lee, J., Ji, Y. S., Joung, H. J., Han, Y. M., Yoo, H. H., & Kang, K. S. (2019). A Hydroxypropyl Methylcellulose-Based Solid Dispersion of Curcumin with Enhanced Bioavailability and its Hepatoprotective Activity. *Biomolecules*. 9(7), 281.
- Sinko, P. J. (2011). *Martin Farmasi Fisika dan Ilmu Farmasetika edisi 5*. Jakarta: Penerbit Buku Kedokteran EGC.
- Suhartati, T. (2017). *Dasar-Dasar Spektrofotometri Uv-Vis Dan Spektrofotometri Massa Untuk Penentuan Struktur Senyawa Organik*. Bandar Lampung: Anugrah Utama Raharja.
- Sulistyani, M. (2017). Optimasi Pengukuran Spektrum Vibrasi Sampel Protein Menggunakan Spektrofotometer Fourier Transform Infra Red (FTIR). *Indonesian Journal of Chemical Science*, 6(2), 173–180.
- Sulistyowaty, M. I., Setyawan, D., Sari, R., Paramanandana, A., Maharani, N. A., Simorangkir, T. P. (2022). Preparation and Physicochemical Characterizations of p-Methoxycinnamic acid – Succinic Acid Cocrystal by Solvent Evaporation Technique. *Open Access Macedonian Journal of Medical Sciences*, 10(A), 1444–1449.
- Tekade, A. R. & Yadav, J. N. (2020). A Review on Solid Dispersion and Carriers Used Therein for Solubility Enhancement of Poorly Water Soluble Drugs. *Advanced Pharmaceutical Bulletin*, 10(3), 359–369.
- Tran, P., Pyo, Y. C., Kim, D. H., Lee, S. E., Kim, J. K., Park, J. S. (2019). Overview of the Manufacturing Methods of Solid Dispersion Technology for Improving the Solubility of Poorly Water-Soluble Drugs and Application to Anticancer Drugs. *Pharmaceutics*, 11(3), 1-26.

Trianggani, D. F., dan Sulistyaningsih. (2018). Artikel Tinjauan: Dispersi Padat. *Farmaka*, 16 (1), 93-102.

Umar, S., Usman, H, Salsabila, H, Zaini, E. (2022). Solid Dispersion of Tenoxicam – HPMC by Freeze-Drying: Solid State Properties, Dissolution Study, and Analgesic Activity in Mice. *Open Access Macedonian Journal of Medical Sciences*, 10(A): 800–806.

Yadav, S., Gupta, P. C., Sharma, N., Kumar, J. (2015). Cocrystals: An Alternative Approach to Modify Physicochemical Properties of Drugs. *International Journal Of Pharmaceutical, Chemical And Biological Sciences*, 5(2), 427-436.

Yanlinastuti dan Fatimah, F. (2016). "Pengaruh Konsentrasi Pelarut Untuk Menentukan Kadar Zirkonium Dalam Paduan U-zr Dengan Menggunakan Metode Spektrofotometri Uv-vis." *Pengelolaan Instalasi Nuklir*, 9(17), 22-33.

Zaini, E., Marhammah, R., Fitriani, L., Hasanah, U., & Umar, S. (2021). The Preparation and Characterization of the Solid Dispersion of Piperine with Hydroxypropyl Methylcellulose (HPMC) 2910 Using Spray Drying. *Tropical Journal of Natural Product Research*, 5(12), 2103-2107.

