

DAFTAR PUSTAKA

- Abd Mutalib, M., Rahman, M. A., Othman, M. H. D., Ismail, A. F., & Jaafar, J. (2017). Scanning Electron Microscopy (SEM) and Energy-Dispersive X-Ray (EDX) Spectroscopy. In *Membrane Characterization*. Elsevier B.V. <https://doi.org/10.1016/B978-0-444-63776-5.00009-7>
- Agoes, Goeswin. 2012. Sediaan Farmasi Padat. Bandung. Penerbit ITB
- Akash, M. S. H., & Rehman, K. (2019). Essentials of pharmaceutical analysis. In *Essentials of Pharmaceutical Analysis*. <https://doi.org/10.1007/978-981-15-1547-7>
- Alfina, S., Najihudin, A., & Auliasari, N. (2022). Review Pengaruh Koformer Arginin Dalam Pembuatan *Co-Amorf* Dengan Metode Ball Milling. *Jurnal Ilmiah Farmako Bahari*, 13(2), 202. <https://doi.org/10.52434/jfb.v13i2.2012>
- Ansel, H.C., Allen, L.V., and Popovich, N.G., 2011, Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 9th Ed., Lippincott Williams and Wilkins, Philadelphia, 294-303.
- Auda, S.H., Ameen, D.S., & El-Awady, M. (2021). FTIR and thermal analysis of ketoconazole solid dispersions. *Journal of Pharmaceutical Investigation*, 51, 247–256.
- Chala, D. B., & Emire, S. A. (2021). X-Ray Diffraction and Patterns : Diffraction Techniques Application for Food Quality Assurance in Bio-Food Industry. 1, 1–6.
- Chen, H., Aburub, A., & Sun, C. C. (2019). Direct Compression Tablet Containing 99% Active Ingredient—A Tale of Spherical Crystallization. *Journal of Pharmaceutical Sciences*, 108(4), 1396–1400. <https://doi.org/10.1016/j.xphs.2018.11.015>
- Chen, H., Wang, C., Kang, H., Zhi, B., Haynes, C. L., Aburub, A., & Sun, C. C. (2020). Microstructures and pharmaceutical properties of ferulic acid agglomerates prepared by different spherical crystallization methods. *International Journal of Pharmaceutics*, 574, 118914. <https://doi.org/10.1016/j.ijpharm.2019.118914>

- Chen, H., Wang, C., Liu, S., & Sun, C. C. (2020). Development of piroxicam mini-tablets enabled by spherical cocrystallization. *International Journal of Pharmaceutics*, 590(July), 119953. <https://doi.org/10.1016/j.ijpharm.2020.119953>
- Chen, H., Wang, C., & Sun, C. C. (2019). Profoundly Improved Plasticity and Tabletability of Griseofulvin by in Situ Solvation and Desolvation during Spherical Crystallization. *Crystal Growth and Design*, 19(4), 2350–2357. <https://doi.org/10.1021/acs.cgd.9b00053>
- Danescu, S., Filip, G. A., & Nagy, A. (2021). Ketoconazole-p Aminobenzoic Cocystal Exhibits a Potent Anti-inflammatory Effect on the Skin of BALBc Mice. *Research Square*, 1–21.
- Depkes RI. (2020). Farmakope Indonesia edisi IV. In *Departemen Kesehatan Republik Indonesia*.
- Dewi, F. A., Sopyan, I., & Rusdiana, T. (2021). Pemilihan Jenis Koformer dan Metode Preparasi dalam Sistem Penghantaran Sediaan *Co-Amorf*. *Jurnal Sains Farmasi & Klinis*, 8(3), 242. <https://doi.org/10.25077/jsfk.8.3.242-257.2021>
- El-Gizawy, S. A., Osman, M. A., Arafa, M. F., & El Maghraby, G. M. (2015). Aerosil as a novel co-crystal co-former for improving the dissolution rate of hydrochlorothiazide. *International Journal of Pharmaceutics*, 478(2), 773–778. <https://doi.org/10.1016/j.ijpharm.2014.12.037>
- Elisabeth, V., Yamlean, P. V. Y., & Supriati, H. S. (2018). Formulasi sediaan granul dengan bahan pengikat pati kulit pisang goroho (*musa acuminata* L.) dan pengaruhnya Pada sifat fisik granul. *PHARMACON Jurnal Ilmiah Farmasi*, 7(4), 1–11.
- Falsafi, S. R., Rostamabadi, H., & Jafari, S. M. (2020). X-ray diffraction (XRD) of nanoencapsulated food ingredients. In *Characterization of Nanoencapsulated Food Ingredients*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-815667-4.00009-2>
- Ghebremeskel, A.N., Vemavarapu, C., & Lodaya, M. (2007). *Use of surfactants as plasticizers in preparing solid dispersions of poorly soluble APIs*. *AAPS PharmSciTech*, 8(4), E1–E7.

- Guo, M., Sun, X., Chen, J., & Cai, T. (2021). Pharmaceutical cocrystals: A review of preparations, physicochemical properties and applications. *Acta Pharmaceutica Sinica B*, 11(8), 2537–2564. <https://doi.org/10.1016/j.apsb.2021.03.030>
- Indra, I., Azahra, R., & Yulianti, R. (2022). Particle Design of Ketoconazole By Spherical Crystallization. *International Journal of Applied Pharmaceutics*, 14(Special Issue 4), 101–105. <https://doi.org/10.22159/ijap.2022.v14s4.PP18>
- Indra, I., Janah, F. M., & Aryani, R. (2019). Enhancing the Solubility of Ketoconazole via Pharmaceutical Cocrystal. *Journal of Physics: Conference Series*, 1179(1). <https://doi.org/10.1088/1742-6596/1179/1/012134>
- Inkson, B. J. (2016). Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) for Materials Characterization. In *Materials Characterization Using Nondestructive Evaluation (NDE) Methods*. Elsevier Ltd. <https://doi.org/10.1016/B978-0-08-100040-3.00002-X>
- Kara, D. D., & Rathnanand, M. (2022). Cocrystals and Drug–Drug Cocrystals of Anticancer Drugs: A Perception towards Screening Techniques, Preparation, and Enhancement of Drug Properties. *Crystals*, 12(10). <https://doi.org/10.3390/cryst12101337>
- Kawashima, Y. (1984). Development of spherical crystallization technique and its application to pharmaceutical systems. In *Archives of Pharmacal Research* (Vol. 7, Nomor 2, hal. 145–151). <https://doi.org/10.1007/BF02856629>
- Kumar, A., Singh, P., & Nanda, A. (2020). Hot stage microscopy and its applications in pharmaceutical characterization. *Applied Microscopy*, 50(1). <https://doi.org/10.1186/s42649-020-00032-9>
- Laili, N., Komala, A. M., Maulida, H., & Suprpto, S. (2019). Optimasi Konsentrasi Amylum Sagu (Metroxylon rumphii) sebagai Co-Processed pada Pembuatan Tablet Teofilin. *Pharmacon: Jurnal Farmasi Indonesia*, 14(2), 72–80. <https://doi.org/10.23917/pharmacon.v14i2.6422>

- Martin, F., Pop, M., Kacso, I., Grosu, I. G., Miclăuș, M., Vodnar, D., Lung, I., Filip, G. A., Olteanu, E. D., Moldovan, R., Nagy, A., Filip, X., & Bâldea, I. (2020). Ketoconazole- p-aminobenzoic Acid Cocrystal: Revival of an Old Drug by Crystal Engineering. *Molecular Pharmaceutics*, 17(3), 919–932. <https://doi.org/10.1021/acs.molpharmaceut.9b01178>
- Mohamed, M. A., Jaafar, J., Ismail, A. F., Othman, M. H. D., & Rahman, M. A. (2017). Fourier Transform Infrared (FTIR) Spectroscopy. In *Membrane Characterization*. Elsevier B.V. <https://doi.org/10.1016/B978-0-444-63776-5.00001-2>
- Munjal, B., & Suryanarayanan, R. (2021). Applications of synchrotron powder X-ray diffractometry in drug substance and drug product characterization. *TrAC - Trends in Analytical Chemistry*, 136, 116181. <https://doi.org/10.1016/j.trac.2021.116181>
- Nanda, T., Sulaiman, S., & Sulaiman, S. (2020). Article Review Journal of Pharmaceutical and Sciences (Jps) Review: Excipients for Tablet Manufacturing With Direct Compression Method. *Journal of Pharmaceutical and Sciences*, 3(2), 64–76.
- Nascimento, A. L. C. S., Fernandes, R. P., Charpentier, M. D., ter Horst, J. H., Caires, F. J., & Chorilli, M. (2021). Co-crystals of non-steroidal anti-inflammatory drugs (NSAIDs): Insight toward formation, methods, and drug enhancement. *Particuology*, 58, 227–241. <https://doi.org/10.1016/j.partic.2021.03.015>
- Nguyen, J. N. T., & Harbison, A. M. (2017). Scanning electron microscopy sample preparation and imaging. *Methods in Molecular Biology*, 1606, 71–84. https://doi.org/10.1007/978-1-4939-6990-6_5
- Rades, T., Aaltonen, J., & Grohgan, H. (2011). *Amorphous drugs and dosage forms*. *Advanced Drug Delivery Reviews*, 63, 1331–1344.
- Ravooru, N., Penjuri, S. C. B., Damineni, S., Muni, R. L., & Poreddy, S. R. (2018). Preparation and in vitro evaluation of ibuprofen spherical agglomerates. *Turkish Journal of Pharmaceutical Sciences*, 15(1), 7–15. <https://doi.org/10.4274/tjps.09609>

- Raymond C Rowe, Paul J Sheskey, M. E. Q. (2009). Pharmaceutical excipients. In *Remington: The Science and Practice of Pharmacy*. <https://doi.org/10.1016/B978-0-12-820007-0.00032-5>
- Saputri, Y. L., Nawangsari, D., & Samodra, G. (2022). Formulasi dan Evaluasi Tablet Hisap Ekstrak Kulit Pisang Raja (*Musa X paradisiaca* L.) Menggunakan Polivinil Piroolidon (PVP). *Jurnal Mandala Pharmacon Indonesia*, 8(2), 262–274. <https://doi.org/10.35311/jmpi.v8i2.249>
- Shayanfar, A., & Jouyban, A. (2014). Physicochemical characterization of a new cocrystal of ketoconazole. *Powder Technology*, 262, 242–248. <https://doi.org/10.1016/j.powtec.2014.04.072>
- Šimek, M., Grünwaldová, V., & Kratochvíl, B. (2016). Hot-stage microscopy for determination of API fragmentation: comparison with other methods. *Pharmaceutical Development and Technology*, 21(5), 583–589. <https://doi.org/10.3109/10837450.2015.1026608>
- Song, Y., Cong, Y., Wang, B., & Zhang, N. (2020). Applications of Fourier transform infrared spectroscopy to pharmaceutical preparations. *Expert Opinion on Drug Delivery*, 17(4), 551–571. <https://doi.org/10.1080/17425247.2020.1737671>
- Syaputri, F. N., Saila, S. Z., Tugon, T. D. A., R., A. P., & Lestari, D. (2023). Formulasi dan Uji Karakteristik Fisik Sediaan Granul Effervescent Ekstrak Etanol Daun Sirih Merah (*Piper crocatum* ruiz) Sebagai Antidiabetes. *Jurnal Ilmu Kefarmasian*, 4(1), 191–198.
- Thakuria, R., Delori, A., Jones, W., Lipert, M. P., Roy, L., & Rodríguez-Hornedo, N. (2013). Pharmaceutical cocrystals and poorly soluble drugs. *International Journal of Pharmaceutics*, 453(1), 101–125. <https://doi.org/10.1016/j.ijpharm.2012.10.043>
- Thayyil, A. R., Juturu, T., Nayak, S., & Kamath, S. (2020). Pharmaceutical Co-crystallization: Regulatory aspects, design, characterization, and applications. *Advanced Pharmaceutical Bulletin*, 10(2), 203–212. <https://doi.org/10.34172/apb.2020.024>

- Wicaksono, Y., Al Amaliyah, S. I., Rahmayanti, F., Rosidi, V. A., Winarti, L., & Setyawan, D. (2022). Preparation and Evaluation of Antihypercholesterolemic Activity of Atorvastatin Calcium-Maleic Acid Co-Amorphous Solids.
- Woosley, R. L. (2000). *United States Patent (19)*. 22(8), 1003–1005.
- Yadav, J. P., Yadav, R. N., Uniyal, P., Chen, H., Wang, C., Sun, C. C., Kumar, N., Bansal, A. K., & Jain, S. (2020). Molecular Interpretation of Mechanical Behavior in Four Basic Crystal Packing of Isoniazid with Homologous Cocrystal Formers. *Crystal Growth and Design*, 20(2), 832–844. <https://doi.org/10.1021/acs.cgd.9b01224>
- Yu, H., Zhang, L., Liu, M., Yang, D., He, G., Zhang, B., Gong, N., Lu, Y., & Du, G. (2023). Enhancing Solubility and Dissolution Rate of Antifungal Drug Ketoconazole through Crystal Engineering. *Pharmaceuticals*, 16(10), 1–16. <https://doi.org/10.3390/ph16101349>
- Zhang, Y., Zhang, J., & Wang, Y. (2020). *Investigation of co-amorphous piperazine-based systems for solubility enhancement. International Journal of Pharmaceutics*, 579, 119182.