

DAFTAR PUSTAKA

- 2018, U. (2018). *USP 41 - NF 36 The United States Pharmacopeia and National Formulary 2018: Main Edition Plus Supplements 1 and 2*. Deutscher Apotheker Verlag. <https://books.google.co.id/books?id=LF4PtAEACAAJ>
- Aisyah, F., Nisa, M., & Rezki, R. (2019). *Teknologi sediaan farmasi*. ISB.
- Akash, M. S. H., & Rehman, K. (2020). Thermogravimetric analysis. In *Essentials of pharmaceutical analysis*. Springer, Singapore. Chapter 19; 215-221. In *Essentials of Pharmaceutical Analysis*. Springer Nature Singapore Pte Ltd. <https://doi.org/https://doi.org/10.1007/978-981-15-1547-7>
- An, J. H., Kiyonga, A. N., Lee, E. H., & Jung, K. (2019). Simple and efficient spherical crystallization of clopidogrel bisulfate form-i via anti-solvent crystallization method. *Crystals*, 9(1), 1–13. <https://doi.org/10.3390/crust9010053>
- Anggraeni, N. D. (2008). Analisa SEM (Scanning Electron Microscopy) dalam Pemantauan Proses Oksidasi Magnetite Menjadi Hematite. *Seminar Nasional - VII Rekayasa Dan Aplikasi Teknik Mesin Di Industri*, 50–56.
- BPOM RI. (2022). Peraturan Badan Pengawas Obat Dan Makanan Nomor 11 Tahun 2022 Tentang Tata Laksana Uji Bioekivalensi. *Bpom Ri*, 1–95.
- Bunaciu, A. A., Udriștioiu, E. gabriela, & Aboul-Enein, H. Y. (2015). X-Ray Diffraction: Instrumentation and Applications. *Critical Reviews in Analytical Chemistry*, 45(4), 289–299. <https://doi.org/10.1080/10408347.2014.949616>
- 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, C. W. (2014). Stabilization and spheroidization of ammonium nitrate: Co-crystallization with crown ethers and spherical crystallization by solvent screening. *Transport and Energy Processes 2014 - Core Programming Area at the 2014 AIChE Annual Meeting*, 225, 98–106.
- Chen, H., Guo, Y., Wang, C., Dun, J., & Sun, C. C. (2019). Spherical Cocrystallization - An Enabling Technology for the Development of High Dose Direct Compression Tablets of Poorly Soluble Drugs [Research-article]. *Crystal Growth and Design*, 19(4), 2503–2510. <https://doi.org/10.1021/acs.cgd.9b00219>
- Chen, H., Wang, C., Liu, S., & Sun, C. C. (2020). Development of piroxicam mini-tablets enabled by spherical cocrystallization. *International Journal of Pharmaceutics*, 590(October), 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.* <https://doi.org/10.1021/acs.cgd.9b00053>
- Choirul Huda, S. F. M. F. A. T. A. S. S. F. A. (2021). *Teknologi Sediaan Solida: Buku Ajar*. Media Nusa Creative (MNC Publishing). <https://books.google.co.id/books?id=E1FKEAAAQBAJ>
- Dachriyanus, D. (2004). Analisis Struktur Senyawa Organik Secara Spektroskopi. In *Analisis Struktur Senyawa Organik Secara Spektroskopi*. <https://doi.org/10.25077/car.3.1>
- Danescu, S., Filip, G. A., & Nagy, A. (2021). Ketoconazole-p Aminobenzoic Cocrystal 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* (6th ed.). Kementerian Kesehatan RI.
- Duggirala, N. K., Perry, M. L., Almarsson, Ö., & Zaworotko, M. J. (2016). Pharmaceutical cocrystals: Along the path to improved medicines. *Chemical Communications*, 52(4), 640–655. <https://doi.org/10.1039/c5cc08216a>
- 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>
- 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>
- Hairunnisa, H., Sopyan, I., & Gozali, D. (2019). Ko-Kristal: Nikotinamid Sebagai Koformer. *Jurnal Ilmiah Farmako Bahari*, 10(2), 113. <https://doi.org/10.5243/4/jfb.v10i2.652>
- Hardani. (2021). *Buku Ajar Farmasi Fisika*. Penerbit Samudra Biru (Anggota IKAPI).
- Hariyadi, D. M., & Hendradi, E. (2019). Effect of Polymer Concentration on Micromeritics, Kinetics, and Activity of Ciprofloxacin HCl-Alginate Microspheres. *Asian Journal of Pharmaceutics*, 13(4), 349–355.
- Hossain Mithu, M. S., Ross, S. A., Hurt, A. P., & Douroumis, D. (2021). Effect of mechanochemical grinding conditions on the formation of pharmaceutical cocrystals and co-amorphous solid forms of ketoconazole – Dicarboxylic acid. *Journal of Drug Delivery Science and Technology*, 63(March), 102508. <https://doi.org/10.1016/j.jddst.2021.102508>
- 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>
- Isnaeni, N. L., Wulandari, W. T., & Alifiar, I. (2021). *Pembuatan dan Karakterisasi Kokristal Kurkumin dengan Asam Askorbat sebagai Koformer*. September, 122–129.
- Issa, M. G., & Ferraz, H. G. (2011). *Intrinsic Dissolution as a Tool for Evaluating Drug Solubility in Accordance with the Biopharmaceutics Classification System*. August, 6–13.
- Kacso, I., Rus, L. M., Martin, F., Miclaus, M., Filip, X., & Dan, M. (2021). Solid-state compatibility studies of Ketoconazole-Fumaric acid co-crystal with tablet excipients. *Journal of Thermal Analysis and Calorimetry*, 143(5), 3499–3506. <https://doi.org/10.1007/s10973-020-09340-4>
- Kalalo, T., Yamlean, P. V. Y., & Citraningtyas, G. (2019). PENGARUH PENGGUNAAN PATI KULIT NANAS (Ananas comosus (L.) Merr.) SEBAGAI BAHAN PENGIKAT PADA GRANUL CTM. *Pharmacon*, 8(1), 203. <https://doi.org/10.35799/pha.8.2019.29255>
- Kamble, R. N., Bothiraja, C., Mehta, P. P., & Varghese, V. (2018). Synthesis, solid state characterization and antifungal activity of ketoconazole cocrystals. *Journal of Pharmaceutical Investigation*, 48(5), 541–549. <https://doi.org/10.1007/s40005-017-0346-4>
- Kara, D. D., Bangera, P. D., Mehta, C. H., Tanvi, K., & Rathnanand, M. (2023). In Silico Screening as a Tool to Prepare Drug-Drug Cocrystals of Ibrutinib-Ketoconazole: a Strategy to Enhance Their Solubility Profiles and Oral Bioavailability. *AAPS PharmSciTech*, 24(6). <https://doi.org/10.1208/s12249-023-02621-9>
- Khan, F. M., Ahmad, M., & Idrees, H. A. (2020). Simvastatin-nicotinamide cocrystals: Formation, pharmaceutical characterization and in vivo profile. *Drug Design, Development and Therapy*, 14, 4303–4313. <https://doi.org/10.2147/DDDT.S270742>
- Khursheed, R., Singh, S. K., Wadhwa, S., Gulati, M., Awasthi, A., Kumar, R., Ramanunny, A. K., Kapoor, B., Kumar, P., & Corrie, L. (2020). Exploring role of probiotics and Ganoderma lucidum extract powder as solid carriers to solidify liquid self-nanoemulsifying delivery systems loaded with curcumin. *Carbohydrate Polymers*, 250(August), 116996. <https://doi.org/10.1016/j.carbpol.2020.116996>
- Kotbantao, G., & Charoenchaitrakool, M. (2017). Processing of ketoconazole-4-aminobenzoic acid cocrystals using dense CO₂ as an antisolvent. *Journal of CO₂ Utilization*, 17, 213–219. <https://doi.org/10.1016/j.jcou.2016.12.007>

- 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>
- 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>
- 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>
- Narendra Kr. (2010). *Spherical crystallization : A method for improving powder and.* 2(4), 246–254.
- Ostergaard, I., & Qu, H. (2021). Solubility and Crystallization of Piroxicam from Different Solvents in Evaporative and Cooling Crystallization. *Crystals*, 11(12). <https://doi.org/10.3390/crust11121552>
- Otte, A., Boerrigter, S. X. M., & Pinal, R. (2012). Cocrystall of ketoconazole with dicarboxylic acids. *APPS Annual Meeting and Exposition, Chicago*.
- Panzade, P., & Shendarkar, G. (2019). Design and preparation of zaltoprofen-nicotinamide pharmaceutical cocrystals via liquid assisted grinding method. *Indian Journal of Pharmaceutical Education and Research*, 53(4), S563–S570. <https://doi.org/10.5530/ijper.53.4s.151>
- Qiao, N., Li, M., Schlindwein, W., Malek, N., Davies, A., & Trappitt, G. (2011). Pharmaceutical cocrystals: An overview. *International Journal of Pharmaceutics*, 419(1–2), 1–11. <https://doi.org/10.1016/j.ijpharm.2011.07.037>
- Saputra, S. A., Sulaiman, T. N. S., & Herowati, R. (2019). Formulasi Orally Disintegrating Tablet Salbutamol Sulfat Menggunakan Pengisi F-Melt , Pemanis Xylitol Dan Superdisintegritant Sistem Effervescent Orally Disintegrating Tablet Formulation of Salbutamol Sulphate Using F-Melt Fillers , Xylitol Sweeteners and F. *Jurnal Wiyata*, 6(1), 21–30.
- Setyawan, D. (2018). *Kinetics Study Cocrystals Ketoconazole-Succinic Acid Prepared With Slurry Method Based On Powder X-Ray Diffraction (Pxrd) Kinetics Study Cocrystals Ketoconazole-Succinic Acid Pre- Pared With Slurry Method Based On Powder X-Ray Diffrac- Tion (Pxrd). March 2015.*
- 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>
- Sinawe H; Casadesus D. (2023). *Ketoconazole*. StatPearls Publishing, Treasure

- Island (FL).
<https://www.ncbi.nlm.nih.gov/books/NBK559221/?report=printable>
- Singh, M., Barua, H., Jyothi, V. G. S. S., Dhondale, M. R., Nambiar, A. G., Agrawal, A. K., Kumar, P., Shastri, N. R., & Kumar, D. (2023). Cocrystals by Design: A Rational Coformer Selection Approach for Tackling the API Problems. *Pharmaceutics*, 15(4). <https://doi.org/10.3390/pharmaceutics15041161>
- Siregar, C. J. P., & Wikarsa, S. (2010). Teknologi Farmasi Sediaan Tablet Dasar-Dasar Praktis. *Jakarta: EGC*, 13–42.
- Sulistiyowaty, 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. <https://doi.org/10.3889/oamjms.2022.10193>
- Tocher, D. A., & Price, S. L. (2012). *Screening for cocrystals of succinic acid and 4-aminobenzoic acid*. <https://doi.org/10.1039/c2ce06325e>
- Ul-Hamid, A. (2018). A Beginners' Guide to Scanning Electron Microscopy. In *A Beginners' Guide to Scanning Electron Microscopy*. <https://doi.org/10.1007/978-3-319-98482-7>
- Varia, U., Patel, A., Katariya, H., & Detholia, K. (2022). Formulation and optimization of polymeric agglomerates of Bosentan monohydrate by crystallo-co-agglomeration technique. *Bulletin of the National Research Centre*, 46(1). <https://doi.org/10.1186/s42269-022-00837-6>
- Vemuri, venkata deepth, & Lankalapalli, S. (2021). *Cocrystal Construction Between Rosuvastatin Calcium and L-asparagine with Enhanced Solubility and Dissolution Rate*. 18(6), 790–798. <https://doi.org/10.4274/tjps.galenos.2021.62333>
- Vemuri, V. D. (2021). *Rosuvastatin cocrystals: an attempt to modulate physicochemical parameters*. 7.
- Vemuri, V. D., & Lankalapalli, S. (2019). Insight into concept and progress on pharmaceutical co-crystals: An overview. *Indian Journal of Pharmaceutical Education and Research*, 53(4), s522–s538. <https://doi.org/10.5530/ijper.53.4s.147>
- Veverka, M., Dubaj, T., & Peter, S. (2014). *Cocrystals of quercetin: synthesis , characterization , and screening of biological activity*. <https://doi.org/10.1007/s00706-014-1314-6>
- Yadav, A. V., Shete, A. S., Dabke, A. P., Kulkarni, P. V., & Sakhare, S. S. (2009). Co-crystals: A novel approach to modify physicochemical properties of active pharmaceutical ingredients. *Indian Journal of Pharmaceutical Sciences*, 71(4), 359–370. <https://doi.org/10.4103/0250-474X.57283>

- 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>
- Zaini, E. *et al.* (2011). Peningkatan Laju Pelarutan Trimetoprim Melalui Metode Ko-Kristalisasi Dengan', Jurnal Farmasi Indonesia,. *Jurnal Farmasi Indonesia*, 5(4), 205–212.