

DAFTAR PUSTAKA

1. Julianus J, Luckyvano E. Sintesis Asam Sinamat Dari Benzaldehida dan Asam Malona Dengan Katalis Dietilamina. *Jurnal Farmasi Sains dan Komunitas*. 2014; 11:1–6
2. Dos Santos, J. A. B., Chaves Júnior, J. V., de Araújo Batista, R. S., de Sousa, D. P., Ferreira, G. L. R., de Lima Neto, S. A., de Santana Oliveira, A., de Souza, F. S., & Aragão, C. F. S. Preparation, physicochemical characterization and solubility evaluation of pharmaceutical cocrystals of cinnamic acid. *Journal of Thermal Analysis and Calorimetry*. 2021; 145(2), 379–390. <https://doi.org/10.1007/s10973-020-09708-6>
3. Rudyanto, M., & Hartanti, L. (2008). Synthesis of Some Cinnamic Acid Derivates: Effect of Groups Attached On Aromatic Ring To The Reactivity of Benzaldehyde. In *Indo. J. Chem.* 2008; Vol. 8 (2).
4. PubChem Compound Summary for CID 444539, Cinnamic acid. (2023). In National Centel for Biotechnology Information. <https://pubchem.ncbi.nlm.nih.gov/compound/Cinnamic-acid>
5. British Pharmacopoeia Commission., & Stationery Office (Great Britain). *British Pharmacopoeia*. 2020; Vol I.
6. Savjani, K. T., Gajjar, A. K., & Savjani, J. K. Drug Solubility: Importance and Enhancement Techniques. *ISRN Pharmaceutics*. 2012; 1–10. <https://doi.org/10.5402/2012/195727>
7. Triyana, R., Nurhabibah, N., & Sopyan, I. Artikel Review : Kokristal Ibuprofen dengan Berbagai Koformer, Virtual Screening Tools. *Majalah Farmasetika*. 2020; 6(1), 23. <https://doi.org/10.24198/mfarmasetika.v6i1.27570>
8. Thakuria, R., Delori, A., Jones, W., Lipert, M. P., Roy, L., & Rodríguez-Hornedo, N. Pharmaceutical cocrystals and poorly soluble drugs. In *International Journal of Pharmaceutics*. 2013; Vol. 453(1). 101–125. <https://doi.org/10.1016/j.ijpharm.2012.10.043>

9. Leng, F., Robeyns, K., & Leyssens, T. Urea as a cocrystal former-study of 3 urea based pharmaceutical cocrystals. *Pharmaceutics*. 2021; 13(5). <https://doi.org/10.3390/pharmaceutics13050671>
10. Patole, T., & Deshpande, A. Co-Crystallization-A Technique For Solubility Enhancement. *International Journal of Pharmaceutical Sciences and Research*. 2014; 5(9), 3566. [https://doi.org/10.13040/IJPSR.0975-8232.5\(9\).3566-76](https://doi.org/10.13040/IJPSR.0975-8232.5(9).3566-76)
11. Singh Sekhon, B. ARS Pharmaceutica Pharmaceutical co-crystals-a review. *ARS Pharmaceutica*. 2009. Vol. 50. <http://farmacia.ugr.es/ars/>
12. Patole, T., & Deshpande, A. Co-Crystallization-A Technique For Solubility Enhancement. *International Journal of Pharmaceutical Sciences and Research*. 2014; 5(9), 3566. [https://doi.org/10.13040/IJPSR.0975-8232.5\(9\).3566-76](https://doi.org/10.13040/IJPSR.0975-8232.5(9).3566-76)
13. Putri, D. Review: Multi-Component Crystals: Cinnamic Acid As A Co-Former. *International Journal of Pharmaceutical Sciences and Medicine*. 2021; 6(1), 92–98. <https://doi.org/10.47760/ijpsm.2021.v06i01.008>
14. Yingrong, C. I., Ma, Y., & Mal, W. Pharmacokinetics and bioavailability of cinnamic acid after oral administration of ramulus cinnamomi in rats. In *European Journal Of Drug Metabolism And Pharmacokinetics*. 2009; Vol. 34(I).
15. Adisakwattana, S. Cinnamic acid and its derivatives: Mechanisms for prevention and management of diabetes and its complications. In *Nutrients*. 2017; Vol. 9(2). MDPI AG. <https://doi.org/10.3390/nu9020163>
16. *Farmakope Indonesia edisi VI*. Departemen Kesehatan Republik Indonesia; 2020
17. PubChem Compound Summary for CID 1176, Urea. In: National Center of Biotechnology Information [Internet]. 2023 [cited 2023 Apr 7]. Available from: <https://pubchem.ncbi.nlm.nih.gov/compound/Urea>.
18. He, G., Chow, P. S., & Tan, R. B. H. Predicting multicomponent crystal formation: The interplay between homomeric and heteromeric interactions. *Crystal Growth and Design*. 2009; 9(10), 4529–4532. <https://doi.org/10.1021/cg900538g>

19. Grothe, E., Meekes, H., Vlieg, E., ter Horst, J. H., & de Gelder, R. (2016). Solvates, Salts, and Cocrystals: A Proposal for a Feasible Classification System. *Crystal Growth and Design*. 2016; 16(6), 3237–3243. <https://doi.org/10.1021/acs.cgd.6b00200>
20. Berry, D. J., & Steed, J. W. Pharmaceutical cocrystals, salts and multicomponent systems; intermolecular interactions and property based design. In *Advanced Drug Delivery Reviews*. 2017; Vol. 117, pp. 3–24. Elsevier B.V. <https://doi.org/10.1016/j.addr.2017.03.003>
21. Infantes, L., Fábíán, L., & Motherwell, W. D. S. Organic crystal hydrates: What are the important factors for formation. *CrystEngComm*. 2007; 9(1), 65–71. <https://doi.org/10.1039/b612529h>
22. Florida USF Tampa Graduate Theses, S., USF Graduate Theses, D., Dawn Marie Clarke, H., Dawn Marie, H., & Engineering, C. *Crystal Engineering of Multi-Component Crystal Forms: The Opportunities and Challenges in Design* Scholar Commons Citation Scholar Commons Citation; 2012. <https://digitalcommons.usf.edu/etd>
23. Nurismi, E., Rosaini, H., & Octavia, dan M. D. Review: Effect of Different Methods on the Multicomponents Crystal Formation from Medicinal Natural Ingredient Compounds. *International Journal of Pharmaceutical Sciences and Medicine*. 2021; 6(5), 32–39. <https://doi.org/10.47760/ijpsm.2021.v06i05.004>
24. Shaikh, R., Singh, R., Walker, G. M., & Croker, D. M. Pharmaceutical Cocrystal Drug Products: An Outlook on Product Development. In *Trends in Pharmacological Sciences*. 2018; Vol. 39, Issue 12, pp. 1033–1048. Elsevier Ltd. <https://doi.org/10.1016/j.tips.2018.10.006>
25. Rodrigues, M., Baptista, B., Lopes, J. A., & Sarraguça, M. C. Pharmaceutical cocrystallization techniques. Advances and challenges. In *International Journal of Pharmaceutics*. 2018; Vol. 547, Issues 1–2, pp. 404–420. Elsevier B.V. <https://doi.org/10.1016/j.ijpharm.2018.06.024>

26. Triyana, R., Nurhabibah, N., & Sopyan, I. Artikel Review : Kokristal Ibuprofen dengan Berbagai Koformer, Virtual Screening Tools. *Majalah Farmasetika*. 2020; 6(1), 23.
<https://doi.org/10.24198/mfarmasetika.v6i1.27570>
27. Mirza, S., Miroshnyk, I., & Yliruusi, J. (2008). Co-crystals: An emerging approach for enhancing properties of pharmaceutical solids *Pharmaceutical formulations View project Diseño y desarrollo de nuevos medicamentos View project*. 2008. <https://www.researchgate.net/publication/235332186>
28. Karagianni, A., Malamatarı, M., & Kachrimanis, K. Pharmaceutical cocrystals: New solid phase modification approaches for the formulation of APIs. In *Pharmaceutics*. 2018; Vol. 10, Issue 1. MDPI AG.
<https://doi.org/10.3390/pharmaceutics10010018>
29. Zaini, E., Afriyani, Fitriani, L., Ismed, F., Horikawa, A., & Uekusa, H. Improved solubility and dissolution rates in novel multicomponent crystals of piperine with succinic acid. *Scientia Pharmaceutica*. 2020; 88(2).
<https://doi.org/10.3390/scipharm88020021>
30. Setiabudi, A., Hardian, R., Mudzakir, A. *Karakterisasi Material; Prinsip dan Aplikasinya dalam Penelitian Kimia*. UPI PRESS. 2012
31. Siregar, Y. D. I., Heryanto, R., Lela, N., & Lestari, T. H. Karakterisasi Karbon Aktif Asal Tumbuhan dan Tulang Hewan Menggunakan FTIR dan Analisis Kemometrika. *Jurnal Kimia VALENSI*. 2015; 103–116.
<https://doi.org/10.15408/jkv.v0i0.3146>
32. Sari, Y. N., Zaini, E., & Ismed, F. Peningkatan Laju Disolusi Piperine dengan Pembentukan Multikomponen Kristal Menggunakan Asam Nikotinat. *Jurnal Sains Farmasi & Klinis*. 2019; 6(2), 180.
<https://doi.org/10.25077/jsfk.6.2.180-185.2019>
33. Sari, mayang. *Identifikasi Protein Menggunakan Fourier Transform Infrared (FTIR)*. Universitas Indonesia. 2010
34. Khoon Seah, C. *Inductively Coupled Plasma Dry Etching Process On Planar Lightwave Circuit Fabrication*. University of Malaya. 2010
35. Martin, A. N., Sinko, P. J., & Singh, Yashveer. *Martin's physical pharmacy and pharmaceutical sciences : physical chemical and biopharmaceutical*

- principles in the pharmaceutical sciences. Lippincott Williams & Wilkins. 2011
36. Loyd V. Allen, & Ansel, H. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems. 2015; tenth edition
 37. Jennifer D, Kramer J. Pharmaceutical Dissolution Testing. 1st Edition. United State: Taylor & Francis Group; 2005.
 38. Jain S, Patel N, Lin S. Solubility and dissolution enhancement strategies: Current understanding and recent trends. Vol. 41, Drug Development and Industrial Pharmacy. Informa Healthcare; 2015. p. 875–87.
 39. Leon S, Andrew B.C Y. Applied Biopharmaceutics and Pharmacokinetics. Seventh Ed. Vol. Vol. 4. New York: Mc Graw Hill Education; 2016.
 40. Dachriyanus. Analisis Struktur Senyawa Organik Secara Spektroskopi Cetakan I. Padang Danalas Univ Press. 2004;
 41. ŞARKAYA, K., GÖKTÜRK, İ., YILMAZ, F., & DENİZLİ, A. (2021). Chiral Separations by Capillary Electrophoresis and related Techniques with Different Chiral Selectors: A Review. Hacettepe Journal of Biology and Chemistry. 2021; 49(3), 253–303. <https://doi.org/10.15671/hjbc.815414>
 42. Sari, Y. N., Zaini, E., & Ismed, F. (2019). Peningkatan Laju Disolusi Piperine dengan Pembentukan Multikomponen Kristal Menggunakan Asam Nikotinat. Jurnal Sains Farmasi & Klinis. 2019; 6(2), 180. <https://doi.org/10.25077/jsfk.6.2.180-185.2019>
 43. Medicines Agency, E. (1922). Committee for Medicinal Products for Human Use (CHMP) Guideline on bioanalytical method validation. 1922 www.ema.europa.eu/contact
 44. Chikanbanjar, N., Semwal, N., & Jyakhwa, U. (n.d.). A Review Article on Analytical Method Validation. In Journal of Pharma Innovation. Vol. 1(1). <https://www.researchgate.net/publication/345600243>
 45. Friiç T, Childs SL, Rizvi SAA, Jones W. The role of solvent in mechanochemical and sonochemical cocrystal formation: A solubility-based approach for predicting cocrystallisation outcome. CrystEngComm. 2009;11(3):418–26.

46. Susmitha A, Hepcy Kalarani D, Venkatesh P, Ravindra Reddy K. Analytical method development and validation of aceclofenac in pharmaceutical dosage form by UV spectroscopy technique. *Int J Pharm Pharm Sci.* 2013;5(3):150–3
47. Harmita H. Petunjuk Pelaksanaan Validasi Metode Dan Cara Perhitungannya. *Maj Ilmu Kefarmasian.* 2004;1(3):117–35.
48. Bazzo GC, Pezzini BR, Stulzer HK. Eutectic mixtures as an approach to enhance solubility, dissolution rate and oral bioavailability of poorly water-soluble drugs. *Int J Pharm.* 2020;588.
49. Isadiartuti, D., Ekowati, J., Noorma, Rosita, & Amalia, N. R. (2023). The dissolution of p-methoxycinnamic acid- β -cyclodextrin inclusion complex produced with microwave irradiation. *Journal of Public Health in Africa, 14(S1)*. <https://doi.org/10.4081/jphia.2023.2500>
50. Fatimah S, Ragadhita R, Husaeni DF Al, Nandiyanto ABD. How to Calculate Crystallite Size from X-Ray Diffraction (XRD) using Scherrer Method. *ASEAN J Sci Eng.* 2021;2(1):65–76.
51. Oberoi LM, Alexander KS, Riga AT. Study of interaction between ibuprofen and nicotinamide using differential scanning calorimetry, spectroscopy, and microscopy and formulation of a fast-acting and possibly better ibuprofen suspension for osteoarthritis patients. *J Pharm Sci.* 2005;94(1):93–101.
52. Wicaksono, Yudi ; Setyawan DS. Formation of Ketoprofen-Malonic Acid Cocrystal by Solvent Evaporation Method. *Indones J Chem.* 2017;17(2):161–6
53. Emami S, Siahi-Shadbad M, Barzegar-Jalali M, Adibkia K. Characterizing eutectic mixtures of gliclazide with succinic acid prepared by electrospray deposition and liquid assisted grinding methods. *J Drug Deliv Sci Technol.* 2018;45:101–9.
54. Yunita E, Arifah EN, Tamara VF. Validasi Metode Penetapan Kadar Vitamin C Kulit Jeruk Keprok (*Citrus reticulata*) secara Spekteofotometri UV-Vis. *Pharm J Farm Indones (Pharmaceutical J Indones.* 2019;16(1):118.