

## DAFTAR PUSTAKA

- Amidon, G., Lernernas, H., Shah, P., dan Crison, R. 1995. A theoretical basis for a biopharmaceutic drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability. *Pharmaceutical Research*, 12(3), 413-419.
- Allen, L.V. dan Ansel, H.C. 2014. *Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems*. 10<sup>th</sup> ed. Wolters Kluwer. USA.
- Batisai, E., Ayamine, A., Kilinkissa, O., dan Báthori, B.N. 2014. Melting Point–Solubility–Structure Correlations In Multicomponent Crystals Containing Fumaric Or Adipic Acid. *The Royal Society of Chemistry*, 16, 9992–9998.
- Bavishi, D.D. dan Borkhataria, C.H. 2016. Spring and parachute: how cocrystals enhance solubility. *B.K. Mody Government Pharmacy College*, 62(3), 1–8.
- Budiman, A., Husni, P., Shafira,dan Alfauziah, Q. 2019. the development of glibenclamide-saccarin cocrystal tablet formulations to increase the disssolution rate of the drug. *International Journal of Applied Pharmaceutics*, 11(4), 360-362.
- Brittain, H. G., and Bruce, R. D. 2003. In: Barcelo, D., Merkoci, A., Lewenstam, A., Diamond, D., Radu, A., dan Schoning, M. *Comprehensive Analytical Chemistry*, Vol. 47. Elsevier.
- Basavoju, S., Bostro,D., and Velaga, S.P. 2007. Indomethacin–Saccharin Cocrystal: Design, Synthesis and Preliminary Pharmaceutical Characterization. *Pharmaceutical Research*, Vol. 25(30), 530-541.
- Chadha, R., Bhalla, Y., Karan, M., Vashisht, dan Chadha, K. 2013. *Cocrystallization in Nutraceuticals*. Intech.

- Chelsea, S.D. 2020. Karakterisasi Fisikokimia Kokristal Asam p-Metoksisinamat-Sakarin Yang Dibuat Dengan Metode Penguapan Pelarut. *Skripsi*. Fakultas Farmasi Universitas Airlangga. Surabaya.
- Chun, N., Wangc, I., Lee, M., Jung, Y., Kim, W. dan Choi, G.J. 2013. Characteristics of indomethacin–saccharin (IMC–SAC) co-crystals prepared 4 by an anti-solvent crystallization process. *European Journal of Pharmaceutics and Biopharmaceutics*.
- Douroumis, D., Ross, S.A., dan Nokhodchi, A. 2017. *Advanced methodologies for cocrystal synthesis*. Elsevier.
- Ekowati, J. dan Diyah, W. 2013. Aktivitas antinociceptiv dan uji in silico terhadap cyclooxygenase dari senyawa asam p-metoksisinamat dan Asam m-Metoksisinamat. *Berkala Ilmiah Kimia Farmasi*, 2(1), 33-40.
- Elder, D.P., Holm, R., dan Diego, H.L. 2012. Use of pharmaceutical salts and cocrystals to address the issue of poor solubility. *International Journal of Pharmaceutics*. Elsevier.
- Gao, Y., Zu, H. and Zhang, J. 2011. Enhanced Dissolution And Stability Of Adefovir Dipivoxil By Cocrystal Formation. *Journal of Pharmacy and Pharmacology* .Vol. 63, 483–490
- Grodowska, K., Parczewski. A. 2010. Organic Solvents In The Pharmaceutical Industry. *Acta Poloniae Pharmaceutica*, 67(1), 3-12.
- Human Metabolom Database. 2020. 4-Methoxycinnamic acid. <https://hmdb.ca/metabolites/HMDB0002040>. Diakses 1 juli 2020.
- Human Metabolom Database. 2020. Saccharin. <https://hmdb.ca/metabolites/HMDB0029723>. Diakses 1 juli 2020.
- Iqbal, M. 2017. Pengaruh pembentukan kokristal Quercetin-asam malonat yang dibuat dengan metode solvent drop grinding terhadap kelarutan dan disolusi. *Skripsi*. Fakultas Farmasi Universitas Airlangga. Surabaya.

- Karagianni, A., Malamatari, M. and Kachrimanis, K. 2017. Pharmaceutical cocrystals: new solid phase modification approaches for the formulation of APIs. *Journal pharmaceutics*, 10(18), 1-30.
- Kumar S. dan Nanda A. 2017. Pharmaceutical cocrystals: an overview. *Indian Journal of Pharmaceutical Sciences*. 79(6), 858-871.
- Loftson, T. and Brewster, E.M. 2010. Pharmaceutical applications of cyclodextrins: basic science and product development. *Jurnal of pharmacy and pharmacology*, 62(53), 1607–1621.
- Martin, A., Swarbrick, J., dan Cammarata, A. 1990. *Physical Pharmacy*. 3th ed. Lea and Febiger. USA.
- National Center for Biotechnology Information. 2020. 4-Methoxycinnamic acid.<https://pubchem.ncbi.nlm.nih.gov/compound/4Methoxycinnamic-acid>. Diakses 1 juli 2020.
- National Center for Biotechnology Information. 2020. Saccharin. <https://pubchem.ncbi.nlm.nih.gov/compound/SACCHARIN>. Dikses 1 juli 2020.
- Padrela, L., Rodrigues, M.A., Velagab, S.P., dan Matos, H.A. 2009. Formation of indomethacin–saccharin cocrystals using supercritical fluid technology. *European Journal of Pharmaceutical Sciences*, 38(2009), 9–17.
- Pagire, S.K., Jadav, N., Vangala, V.R. dan Whiteside, B. 2017. Thermodynamic investigation of carbamazepine-saccharin co-crystal polymorphs. *Journal of Pharmaceutical Sciences*, 106 (2017), 2009-2014.
- Panzade, P., Shendarkar, G., Shaikh, S., dan Rathi, P.B. 2017. Pharmaceutical cocrystal of piroxicam: design, formulation and evaluation. *Advanced Pharmaceutical Bulletin*, 7(3), 399-40.
- Pavia, D. L., Lampman, G., Kriz, G. S., Vyvyan, J. R., 2015. *Introduction to Spectroscopy*. Washington.

- Pratiwi, K.D. 2018. Pengaruh Pembentukan Kokristal Loratadin-asam suksinat dengan metode penggilingan kering terhadap kelarutan dan disolusi Loratadin. *Skripsi*. Fakultas Farmasi Universitas Airlangga. Surabaya.
- Pratiwi, S., dan Runadi, D. 2015. Sintesis oktil para metoksisinamat dari bahan baku rimpang kencur (*Kaempferia galangae rhizoma*): review. *Farmaka*, 14(3), 109-118.
- Poonam, S.N., Patil, S.J., dan Mote, U.N. 2017. Pharmaceutical co-crystals: a novel approach and techniques for solubility enhancement. *Journal of Pharmaceutical and Medical Research*, 4(2), 376-384.
- Qiao, N., Li, M., Schlindwein, W., Malek, N., Davies, A., dan Trappitt, G. 2011. Pharmaceutical cocrystals: an overview. *International Journal of Pharmaceutics*, 419(1), 1-11.
- Qiao, N. 2014. Investigation of carbamazepine-nicotinamide cocrystal solubility and dissolution by a UV imaging system. *Tesis*. De Montfort University. Leicester.
- Rahman, Z., Samy, R., Sayeed, V.A., and Khan, M.A. 2012. Physicochemical and mechanical properties of carbamazepine cocrystals with saccharin. *Pharmaceutical Development and Technology*, 17(4), 457–465.
- Rani, Y.D.S. 2019. Disolusi kompleks inklusi asam *p*-metoksisinamat (APMS)  $\beta$ -siklodekstrin (BCD) yang dibuat dengan metode solvent drop grinding. *Skripsi*. Fakultas Farmasi Universitas Airlangga. Surabaya.
- Sanjay, N., Dattaraya, M., dan Bhanudas, R. 2014. Pharmaceutical cocrystallization: a review. *Department of Pharmaceutical Chemistry*, 4(4), 388-396.

- Santosa, M.H. 1997. Metabolisme metabolit sekunder tanaman obat Indonesia pada kultur sel hepatosit tikus terisolasi: penelitian metabolism etil-para metoksisinamat. ADLN Perpustakaan Universitas Airlangga. Surabaya.
- Savjani, K.T., Gajjar, A., dan Savjani, J. 2012. Drug solubility: importance and enhancement techniques. *International Scholarly Research Network ISRN Pharmaceutics*, 2012(1), 1-10.
- Setyawan, D., Sari, R., Yusuf, H., & Primaharinastiti, R., 2014.. Preparation and characterization of artesunate - Nicotinamide cocrystal by solvent evaporation and slurry method. *Asian Journal of Pharmaceutical and Clinical Research*, 7(1), 62–65.
- Setyawan, D., Oktavia, I.P., Farizka, R., dan Sari, R. 2017. Physicochemical Characterization and In Vitro Dissolution Test of Quercetin-Succinic Acid Co-crystals Prepared Using Solvent Evaporation. *Turk J Pharm Sci*,14(3), 280-284.
- Setyawan, D., Jovita, R. O., Yusuf, H., dan Lestari, M. L. A. D., 2018. Co-crystallization of quercetin and malonic acid using solvent-drop grinding method. *Tropical Journal of Pharmaceutical Research*, 17 (6), 997-1002.
- Setyawan, D., Permata, S.A., Zainul, A., dan Lestari, M.L.A.D. 2018. Improvement in vitro dissolution rate of quercetin using cocrystallization of quercetin-malonic acid. *Indones. J. Chem.*, 18 (3), 531 – 536.
- Shargel, L., Wu-Pong, S., dan Yu, A.B.C. 2012. *Biofarmasetika dan Farmakokinetik Terapan*. Edisi 5. Diterjemahkan oleh: Fasich dan Budi Suprapti. Surabaya: Airlangga. University Press.

- Siswandi, S., Rusdiana, T., Levita, J. 2015. Virtual screening of co-formers for ketoprofen co-crystallization and the molecular properties of the co-crystal. *Journal of Applied Pharmaceutical Science*, 5(6), 078-082.
- Soares, C.D. dan Martins, J.L. 2002. Saccharin analysis in pharmaceutical and cosmetic preparations by derivative ultraviolet spectrophotometry. *Brazilian Journal of Pharmaceutical Sciences*, 48(4), 472-478.
- Sopyan, I., Fudholi, A., Muchtaridi, M., dan Sari, I. P. 2017. Co-crystallization: A Tool to Enhance Solubility and Dissolution Rate of Simvastatin. *J Young Pharm*, 9(2), 183-186.
- Smith, B.T.. 2015. *Remington Education: Physical Pharmacy*. 1<sup>st</sup> ed. Pharmaceutical Press. USA.
- Steed, W. 2013. The role of co-crystals in pharmaceutical design. *Trends in Pharmacological Sciences*. 34(3), 185-193.
- Tewtrakul, S., Yuenyongsawad, S., Kummee, S., dan Atsawajaruwan, L., 2005. Chemical components and biological activities of volatile oil of *Kaempferia galanga* Linn. *Songklanakarin Journal of Science and Technology*, 27(2), 503-507.
- Tomaszewskaa, I., Karkia, S., Shura, J., Pricea, R., Fotakia, T. 2013. Pharmaceutical Characterisation And Evaluation Of Cocrystals: Importance Of In Vitro Dissolution Conditions And Type Of Conformer. *International Journal of Pharmaceutics* . Vol.453, 380–388
- Thakuriaa, R., Deloria, A., Jonesa, W., Lipertb, P., Royb, dan Hornedo, N. 2013. Pharmaceutical cocrystals and poorly soluble drugs. *International Journal of Pharmaceutics*, 453(1), 101– 125.

- Trask, A.V.; Motherwell, W.D.S.; Jones, W. 2005. Pharmaceutical Cocrystallization: engineering a remedy for caffeine hydration. *Crystal Growth and design*, 5(3):1013–1021.
- Vasisht, K., Chadha, K., Karan, M., Bhalla, Y., Jena,dan Chadha, R. 2016. Enhancing biopharmaceutical parameters of bioflavonoid quercetin by cocrystallization. *University Institute of Pharmaceutical Sciences*, 2016(1), 1-33.
- Wicaksono, Y., Setyawan, D., Siswandono, dan Siswoyo, T. A. 2019. Preparation and Characterization of a Novel Cocrystal of Atorvastatin Calcium with Succinic Acid Coformer. *Indones. J. Chem.*, 19 (3), 660 – 667.
- Yufianda, A.R. 2019. Disolusi kompleks inklusi asam *p*-metoksisinamat (APMS)  $\beta$ -siklodekstrin (BCD) yang dibuat dengan metode co grinding. *Skripsi*. Fakultas Farmasi Universitas Airlangga. Surabaya.