

DAFTAR PUSTAKA

- Aulton, M. E. & Taylor, K. M. G., 2018. *Aulton's Pharmaceutics : The Design and Manufacture of Medicines*. 5th ed. UK: Elsevier.
- Chavan, R. B., Thipparaboina, R., Kumara, D. & Shastria, N. R., 2016. Co amorphous systems: A product development perspective. *International Journal of Pharmaceutics*, Volume 515, pp. 403-415.
- Dengale, S. J. et al., 2014. Preparation and characterization of co-amorphous ritonavir–indomethacin systems by solvent evaporation technique: Improved dissolution behavior and physical stability without evidence of intermolecular interactions.. *European Journal of Pharmaceutical Sciences*, Volume 62, pp. 57-64.
- Depkes RI, 2020. *Farmakope Indonesia edisi VI*. Jakarta: Kementrian Kesehatan Republik Indonesia.
- Dewi, I. P. & Merry, M. S., 2017. Peranan Obat Golongan Statin. *Berkala Ilmiah Kedokteran Duta Wacana*, Volume 2(3).
- Fiqrianto, A. N. B., Susilowati & Ratnawati, R., 2023. Gambaran Penggunaan Simvastatin aan Atorvastatin Pada Pasien Jantung Koroner di RSUD Drs. Saydiman Magetan. *Acta Holistica Pharmaciana*, Volume 5(1), pp. 22-29.
- Fudholi, A., 2013. *Disolusi dan Pelepasan Obat In Vitro*. Yogyakarta: Penerbit Pustaka Pelajar.
- Gozali, D., Tandela, R. & Wardhana., Y. W., 2014. Karakterisasi dan peningkatan disolusi kalsium atorvastatin melalui proses mikrokristalisasi. *Bionatura-Jurnal Ilmu-ilmu Hayati dan Fisik*, Volume 16(1), pp. 16-20.
- Hakim, M. L. N. & Rusdiana, T., 2022. Sistem Penghantaran Obat *Co-Amorf*: Preparasi Dan Pemilihan Koformer. *Farmasains*, Volume 2, pp. 77-86.
- Han, J. et al., 2020. Co-amorphous systems for the delivery of poorly water-soluble drugs: recent advances and an update. *Expert Opin Drug Deliv*, pp. 1411-1435.
- Imtihani, H. N. & Permatasari, S. N., 2020. Sintesis dan Karakterisasi Kitosan dari Limbah Kulit Udang Kaki Putih (*Litopenaeus vannamei*).. *Simbiosis*, Volume 9(2), p. 129.

- Imtihani, H. N., Wahyuono, R. A. & Permatasari, S. a. N., 2020. *Biopolimer Kitosan dan Penggunaannya Dalam Formulasi Obat*. Surabaya: Graniti Publisher.
- Kharin, A. Y., 2020. Deep learning for scanning electron microscopy: Synthetic data for the nanoparticles detection. *Ultramicroscopy*, Volume 219.
- Korhonen, O., Pajula, K. & Laitinen, R., 2016. Rational excipient selection for co-amorphous formulations. *Expert Opinion on Drug Delivery*, pp. 551-569.
- Korhonen, O., Pajula, K. & Laitinen, R., 2017. Rational excipient selection for co-amorphous formulations. *Expert Opinion on Drug Delivery*, 14(4), pp. 551-569.
- Kotak, U. et al., 2015. Co-crystallization Technique Its Rationale and Recent Progress. *World Journal of Pharmacy and Pharmaceutical Sciences*, 4(4), pp. 1484-1508.
- Kumar, A., Singh, P. & Nanda, A., 2020. Hot stage microscopy and its applications in pharmaceutical characterization. *Applied Microscopy*, Volume 50(1):12.
- Lachman, L., Lieberman, H. A. & Kanig, J. L., 1986. *The Theory and Practice*. 3rd ed. USA: Lea & Febiger.
- Laitinen, R. et al., 2013. Emerging trends in the stabilization of amorphous drugs. *International Journal of Pharmaceutics*, Volume 453(1), pp. 65-79.
- Lehmann, O., 1910. *Das Kristallisationsmikroskop*. Braunschweig: Vieweg.
- Lehmann, O., 1988. *Molekularphysik*. Leipzig: Engelmann.
- Limbong, M. et al., 2023. *Farmakologi Sosial dan Pengelolaan Obat*. Medan: Yayasan Kita Menulis.
- Lobmann, K., 2013. Amino acids as co-amorphous stabilizers for poorly water soluble drugs – Part 1: Preparation, stability and dissolution. *European Journal of Pharmaceutics and Biopharmaceutics*, Volume 85, pp. 873-881.
- Mahwal, I., Untari, E. & Nurmainah, 2021. Atorvastatin dan Simvastatin Menginduksi Nyeri Otot pada Masyarakat Pontianak. *Jurnal Mahasiswa Farmasi Fakultas Kedokteran*, Volume 3, pp. 1-3.
- Mayur, T., 2015. Solubility Enhancement of Atorvastatin Calcium by Using Microwave Assisted Solid Dispersion Preparation Method. *International Journal of Pharmaceutical Research & Allied Sciences*, 4(1), pp. 51-56.

- Meng, J. et al., 2024. A new crystalline daidzein-piperazine salt with enhanced solubility, permeability, and bioavailability. *Front. Pharmacol*, Volume 15, pp. 1-12.
- Morikawa, C. et al., 2021. Formation mechanism of amorphous drug nanoparticles using the antisolvent precipitation method elucidated by varying the preparation temperature. *International Journal of Pharmaceutics*, Volume 610.
- Muttaqin, R., Prayitno, W. S. W. & Nurbaiti, U., 2023. Pengembangan Buku Panduan Teknik Karakterisasi Material : X-ray Diffractometer (XRD) Panalytical Xpert3 Powder. *Indonesian Journal Of Laboratory*, Volume 6(1), pp. 9-16.
- Nurhikmawati, F., Manurung, M. & Laksmiwati., 2014. Penggunaan Kitosan Dari Limbah Kulit Udang Sebagai Inhibitor Keasaman Tuak. *Jurnal Kimia*, Volume 8(2), pp. 191-197.
- Park, H. et al., 2020. Characterization and therapeutic efficacy evaluation of glimepiride and L-arginine co-amorphous formulation prepared by supercritical antisolvent process: Influence of molar ratio and preparation methods. *International Journal of Pharmaceutics*, p. 581.
- Popy, F., Dewan, I. & and Islam, S., 2012. Evaluation of In Vitro Equivalence for Tablets Containing the Poorly Water Soluble Compound Atorvastatin, Dissolution Technology. Volume 19, pp. 30-33.
- Rosenson, R. S., 2003. Rosuvastatin: a new inhibitor of HMG-coA reductase for the treatment of dyslipidemia.. *Expert Rev Cardiovasc Ther.*, 1(4), pp. 495-505.
- Roy, P. et al., 2023. Study on Sulfamethoxazole–Piperazine Salt: A Mechanistic Insight into Simultaneous Improvement of Physicochemical Properties. *Mol. Pharmaceutics*, Volume 20(10), pp. 5226-5239.
- Saeed, R. M., Dmour, I. & Taha, M. O., 2020. Stable Chitosan-Based Nanoparticles Using Polyphosphoric Acid or Hexametaphosphate for Tandem Ionotropic/Covalent Crosslinking and Subsequent Investigation as Novel Vehicles for Drug Delivery. *Front Bioeng Biotechnol*, Volume 8(2), pp. 1-21.

- Septiano, A. F., Susilo & Setyaningsih, N. E., 2021. Analisis Citra Hasil Scanning Electron Microscopy Energy Dispersive X-Ray (SEM-EDX) Komposit Resin Timbal dengan Metode Contrast to Noise Ratio (CNR). *Indonesian Journal of Mathematics and Natural Sciences*, Volume 44(2), pp. 81-85.
- Setiati, R., Siregar, S., Marhaendrajana³, T. & Wahyuningrum, D., 2018. Pengaruh Wettability Surfaktan Nals Ampas Tebu Padabatan Sandstone Dalam Prosesenhanced Oil Recovery(Eor). *Seminar Nasional Pakar*, Volume 1(1), pp. 1-8.
- Shaker, 2018. Dissolution and Bioavailability Enhancement of Atorvastatin: Gelucire Semi- Solid Binary System. *Journal of Drug Delivery Science and Technology*, Volume 43, pp. 178-184.
- Shaker, M. A., 2018. Disolution and bioavailability enchancement of Atorvastatin : Gelucire semi-solid binary system. *Journal of Drug Delivery Science and Technology*, 43(1773-2247), pp. 178-184.
- Shaquiquzzaman, M. et al., 2015. Piperazine scaffold: a remarkable tool in generation of diverse pharmacological agents. *Journal Of Enzyme Inhibition And Medicinal Chemistry*, p. 487–529.
- Sharma, D., Soni, M., Kumar, S. & Gupta, G., 2009. Solubility Enhancement – Eminent Role in Poorly Soluble Drugs. *Research J. Pharm. and Tech.*, Volume 2(2), pp. 220-224.
- Shayanfar, A., Ghavimi, H., Hamishekar, H. & Jouyban, A., 2013. Coamorphous atorvastatin calcium to improve its physicochemical and pharmacokinetic properties. *J Pharm Pharm Sci*, Volume 16(4), pp. 577-87.
- Silva, J. F. C. et al., 2023. Introduction to Pharmaceutical Co-Amorphous Using a Green Co-milling Technique. *Journal of Chemical Education*, Volume 100, pp. 1627-1632.
- Silverstein, R. M. & Webster, F. X., 1998. *Spectrometrics Identification od Organic Compunds*. 6th ed. NewYork: John Willey and Sons.
- Sinko, P. J., 2011. *Martin's Physical Pharmacy and Pharmaceutical Sciences*. 6th ed. s.l.:Lippincott Williams & Wilkins.

- Skotnicki, M. et al., 2021. Physicochemical Characterization of a Co-Amorphous Atorvastatin-Irbesartan System with a Potential Application in Fixed-Dose Combination Therapy. *Pharmaceutics*, Volume 13, p. 188.
- Song, X. et al., 2020. Effect of molecular weight of chitosan and its oligosaccharides on antitumor activities of chitosan-selenium nanoparticles.. *Carbohydrate Polymers*, p. 231.
- Suryani, et al., 2023. Optimasi Depolimerisasi Kitosan Menggunakan Asam Asetat dengan Variasi Suhu, Waktu, dan Konsentrasi. *Jurnal Mandala Pharmacon Indonesia*, Volume 9(2), pp. 364-373.
- Thayyil, A. R., Juturu, T., Nayak, S. & Kamath, S., 2020. Pharmaceutical Co-Crystallization: Regulatory Aspects, Design, Characterization, and Applications. *Adv Pharm Bull*, Volume 10(2), pp. 203-212.
- Vasconcelos, T., Marques, S., Neves, J. d. & Sarmiento, B., 2016. Amorphous solid dispersions: Rational selection of a manufacturing process. *Advanced Drug Delivery Reviews*, Volume 100, p. 85–101.
- Voight, 1971. *Buku Pelajaran Teknologi Farmasi*. Yogyakarta: UGM Press.
- Wamiati & Wijayanti, 2023. Verification Method for Determination of Melting Temperature and Enthalpy Changes (ΔH) Using Differential Scanning Calorimeter. *Journal of The Indonesian Society of Integrated Chemistry*, Volume 15(2), pp. 139-147.
- Wicaksono, Y. et al., 2022. Preparation and Evaluation of Antihypercholesterolemic Activity of Atorvastatin Calcium-Maleic Acid Co-Amorphous Solids. *Science and Technology Indonesia*, Volume 7(2), p. 202–207.
- Wicaksono, Y. et al., 2021. Preparation of spray dried coamorphous solids to improve the solubility and dissolution rate of atorvastatin calcium. *Jurnal Teknologi (Sciences and Engineering)*, Volume 83(2), pp. 77-83.
- Wicaksono, Y., Setyawan, D., Siswandono & Siswoyo, T. A., 2019. Preparation and Characterization of a Novel Cocrystal of Atorvastatin Calcium with Succinic Acid Coformer. *Indones. J. Chem.*, Volume 19 (3), pp. 660-667.
- Windriyati, Y. N., Rini, M. D. S., Anggara, D. A. & Fitriani, N., 2023. Formulation of atorvastatin calcium tablets by liquisolid technique using propylene

glycol as a solvent and some carrier materials. *Scientific Journal of Pharmacy*, Volume 19(4), pp. 169-181.