

DAFTAR PUSTAKA

- Abraham, J., Poothanari, M.A., Kumar, M. P. A., George, S.C., Thomas, S., 2018. Thermoanalytical Techniques of Nanomaterials. *Characterization of Nanomaterials*. Elsevier Ltd. doi: 10.1016/B978-0-08-101973-3.00008-0.
- Agrawal, Y., Patel, V., 2011. Nanosuspension: An approach to enhance solubility of drugs. *Journal of Advanced Pharmaceutical Technology & Research*, 2(2), p. 81. doi: 10.4103/2231-4040.82950.
- Ain-Ai, A., Gupta, P.K., 2008. Effect of arginine hydrochloride and hydroxypropyl cellulose as stabilizers on the physical stability of high drug loading nanosuspensions of a poorly soluble compound. *International Journal of Pharmaceutics*, 351(1–2), pp. 282–288. doi: 10.1016/j.ijpharm.2007.09.029.
- Aldrich, S., 2019. Sigma Aldrich. Diakses dari <https://www.sigmaaldrich.com/catalog/product/sigma/30549?lang=en®ion=ID>, pada tanggal 3 Januari 2020.
- Ansel, H.C., 1989. *Pengantar Bentuk Sediaan Farmasi Edisi Keempat*. Diterjemahkan dari bahasa inggris oleh Farida Ibrahim. Jakarta: UI Press
- Antony, J., 2014. Design of Experiments for Engineers and Scientists: Second Edition, *Design of Experiments for Engineers and Scientists: Second Edition*. doi: 10.1016/C2012-0-03558-2.
- Antony, J., Kaye, M., 1998. Key interactions. *Manuf. Eng.* 77 (3), 136–138.
- Barton, R., 1990. *Graphical Methods for the Design of Experiments*. Springer-Verlag, New York, NY.
- BASF., 2010. *Kollicoat IR*. BASF SE. Germany: BASF The Chemical Company.

- BASF., 2008. *Kollocoat Pharma Ingredients*. BASF SE. Germany: BASF The Chemical Company.
- BASF, 2020. Kollidon 30. Diakses dari <https://pharmaceutical.basf.com/global/en/drugformulation/products/kollidon-30.html>, pada tanggal 10 Agustus 2020.
- Beijing United Test Co., L., 2016. *UnitedTest*. Diakses dari <http://www.unitedtest.com/products/surface-tensiometer-goniometer/interfacial-tensiometer/manual-simple-surface-ring-tensiometer.html>, pada tanggal 05 Januari 2020.
- Bhakay, A., Merwade, M., Bilgili, E., Dave, R.N., 2011. Novel aspects of wet milling for the production of microsuspensions and nanosuspensions of poorly water-soluble drugs. *Drug Development and Industrial Pharmacy*, 37(8), pp. 963–976. doi: 10.3109/03639045.2010.551775.
- Bilgili, E., Li, M., Afolabi, A., 2016. Is the combination of cellulosic polymers and anionic surfactants a good strategy for ensuring physical stability of BCS Class II drug nanosuspensions?. *Pharmaceutical Development and Technology*, Informa Healthcare USA, Inc, 21(4), pp. 499–510. doi: 10.3109/10837450.2015.1022788.
- Black, S.D., Mould, D.R., 1991. Development of hydrophobicity parameters to analyze proteins which bear post- or cotranslational modifications. *Analytical Biochemistry*, 193(1), pp. 72–82. doi: 10.1016/0003-2697(91)90045-U.
- Blank, L., 1939. The Solution of Problems by Means of Graphs. *School Science and Mathematics*, 39(5) <https://doi.org/10.1111/j.1949-8594.1939.tb14708.x>

- Bonacucina, G., Martino, P.D., Piombetti, M., Colombo, A., Roversi, F., Palmieri, G.F., 2006. Effect of plasticizers on properties of pregelatinised starch acetate (Amprac 01) free films. *International Journal of Pharmaceutics*, 313(1–2), pp. 72–77. doi: 10.1016/j.ijpharm.2006.01.046.
- Book, C., 2017. Hesperetin. Diakses dari https://www.chemicalbook.com/ChemicalProductProperty_EN_cb4304735.htm, pada tanggal 03 Agustus 2020
- Buhler, V., 2008. Kollidon, Polyvinylpyrrolidone excipients for the pharmaceutical Industry. *BASF 9th Edition*. Ludwigshafen, Germany: BASF The Chemical Company.
- Buhler, V., 2008. Pharmaceutical Technology of BASF Excipients. *BASF The Chemical Company*.
- Butler, J.M., Dressman, J.B., 2010. The Developability Classification System: *Application of. Journal of Pharmaceutical Sciences*, 99(12).
- Capsugel, 2017. *Perspectives on Overcoming Bioavailability Challenges*. Diakses dari : https://pages.questexweb.com/rs/294-MQF-056/images/BioavailabilityEnhancements_eBook_Final_March2017_v1.pdf?aliId=3193638619, pada 3 Januari 2020.
- Chaubal, M.V., Popescu, C., 2008. Conversion of Nanosuspensions into Dry Powders by Spray Drying : A Case Study. *Pharmaceutical Research* 25(10), pp. 2302–2308. doi: 10.1007/s11095-008-9625-0.
- Chemical, C., 2019. *Cayman Chemical*. Diakses dari <https://www.caymanchem.com/product/10006084/hesperetin>, pada tanggal 5 Januari 2020.

- Chirayil, C. J., Abraham, J., Mishra, R.K., George, S.C., Thomas, S., 2017. Chapter 1 - Instrumental Techniques for the Characterization of Nanoparticles. *Thermal and Rheological Measurement Techniques for Nanomaterials Characterization*, Elsevier Inc. doi: 10.1016/B978-0-323-46139-9.00001-3.
- Choi, J.Y., Yoo, J.Y., Kwak, H.S., Nam, B.U., Lee, J., 2005. Role of polymeric stabilizers for drug nanocrystal dispersions. *Current Applied Physics*, 5(5), pp. 472–474. doi: 10.1016/j.cap.2005.01.012.
- Colombo, M., Staufenbiel, S., Rühl, E., Bodmeier, R., 2017. In situ determination of the saturation solubility of nanocrystals of poorly soluble drugs for dermal application. *International Journal of Pharmaceutics*, Elsevier B.V., 521(1–2), pp. 156–166. doi: 10.1016/j.ijpharm.2017.02.030.
- Components, L., 2019. *Laser Components*. Diakses dari <https://www.lasercomponents.com/de-en/application/photon-correlation-spectroscopy/>, pada tanggal 5 Januari 2020.
- Danek, V., 2006. Phase Equilibria. *Physico-Chemical Analysis of Molten Electrolytes*, 2, pp. 107–219. doi: 10.1016/B978-0-444-52116-3.50004-0.
- Danisworo, R; Kasmungin, S; Astra, Agus., 2017. Karakterisasi Surfaktan Polimer Pada Salinitas 15.000 ppm dan Suhu 85°C. *Seminar Nasional Cendekiawan ke 3 Tahun 2017 Buku 1*, pp. 239–244.
- Das, S., Suresh, P.K., 2011. Nanosuspension: a new vehicle for the improvement of the delivery of drugs to the ocular surface . Application to amphotericin B. *Nanomedicine: Nanotechnology, Biology, and Medicine*. Elsevier Inc., 7(2), pp. 242–247. doi: 10.1016/j.nano.2010.07.003.

- Departemen Kesehatan RI, 2009. Farmakope Indonesia IV. *Farmakope Indonesia Edisi IV*, pp. 137–138. Departemen Kesehatan RI
- Departemen Kesehatan RI, 2014. Farmakope Indonesia V. *Farmakope Indonesia Edisi V*, pp. 137–138. Departemen Kesehatan RI
- Deski Beri, H. S, 2014. *Handout Analisis Instrument*. Universitas Negeri Padang, Sumatera Barat.
- Eerdenbrugh, B.V., Mooter, G.V.D., Augustijns, P., 2008. Top-down production of drug nanocrystals: Nanosuspension stabilization, miniaturization and transformation into solid products. *International Journal of Pharmaceutics* 364, pp. 64–75. doi: 10.1016/j.ijpharm.2008.07.023.
- Eerdenburgh, B.V., Vermant, J., Martens, J.A., Froyen, L., Humbeeck, J.V., Augustijns, P., Mooter, G.V.D., 2009. A Screening Study of Surface Stabilization during the Production of Drug Nanoparticle. *Journal of Pharmaceutical Sciences*, 98(6). doi: 10.1002/jps.21563
- Erlund, I., 2004. Review of the flavonoids quercetin, hesperetin, and naringenin. Dietary sources, bioactivities, bioavailability, and epidemiology. *Nutrition Research*, 24(10), pp. 851–874. doi: 10.1016/j.nutres.2004.07.005.
- Felton, L.F., 2012. *Remington, Essential of Pharmaceutics*. London: Pharmaceutical Press.
- Florence, A.T., Attwood, D., (2006). *Psychochemical Principles of Pharmacy (4th Ed)*. London: Pharmaceutical Press
- Fredrickson, G.H., 2002. Block Copolymers: ABC and Higher Order. *Encyclopedia of Materials: Science and Technology*, pp. 1–6. doi: 10.1016/b0-08-043152-6/01850-7.

- Geng, T., Banerjee, P., Lu, Z., 2017. Comparative study on stabilizing ability of food protein, non-ionic surfactant and anionic surfactant on BCS type II drug carvedilol loaded nanosuspension: Physicochemical and pharmacokinetic investigation. *European Journal of Pharmaceutical Sciences*. Elsevier B.V. doi: 10.1016/j.ejps.2017.08.005.
- George, M., Ghosh, I., 2013. Identifying the correlation between drug/stabilizer properties and critical quality attributes (CQAs) of nanosuspension formulation prepared by wet media milling technology. *European Journal of Pharmaceutical Sciences*, 48(1–2), pp. 142–152. doi: 10.1016/j.ejps.2012.10.004.
- Ghosh, I., Bose, S., Vippagunta, R., Harmon, F., 2011. Nanosuspension for improving the bioavailability of a poorly soluble drug and screening of stabilizing agents to inhibit crystal growth. *International Journal of Pharmaceutics*, 409(1–2), pp. 260–268. doi: 10.1016/j.ijpharm.2011.02.051.
- Gigliobianco, M.R., 2018. Nanocrystals of Poorly Soluble Drugs : Drug Bioavailability and Physicochemical Stability. *Pharmaceutics*, 10(134) doi: 10.3390/pharmaceutics10030134.
- Gilev, V.G., 2000. Wear resistance of composite materials based on silicon nitride and carbide with ceramic melt infiltrations. *Refractories and Industrial Ceramics*, 41(3–4), pp. 80–83. doi: 10.1007/BF02693832.
- Gupta, R.B., Kompella, U.B., 2006. *Nanoparticle Technology For Drug Delivery. 1st edn*. New York, USA: Taylor & Francis Group.
- Haines, P.J., Reading, M., Wilburn, F.W., 1998. Differential Thermal Analysis and Differential Scanning Calorimetry. *Handbook of Thermal Analysis and Calorimetry*, Volume 1, p. 279.

- Hangzhou Colorific Chemicals Co., L., 2004. Hangzhou Colorific Chemicals Co., Ltd. Diakses dari <http://www.colorific-chem.com/pages/en/povidone-k30.htm> , pada tanggal 5 Januari 2020.
- He, Y., Lu, Y., Qi, J., Chen, L., Yin, L., Wu, W., 2007. Heat transfer and flow behaviour of aqueous suspensions of TiO₂ nanoparticles (nanofluids) flowing upward through a vertical pipe. *Int. J. Heat Mass Transf.* 50(11), 2272–228.
- Hong, C., Dang, Y., Lin, G., Yao, Y., Li, G., Ji, G., Shen, H., Xie, Y., 2014. Effects of stabilizing agents on the development of myricetin nanosuspension and its characterization: An in vitro and in vivo evaluation. *International Journal of Pharmaceutics*. Elsevier B.V., 477(1–2), pp. 251–260. doi: 10.1016/j.ijpharm.2014.10.044.
- Janssens, S., Armas, H.N.D., Remon, J.P., Mooter, G.V.D., 2007. The use of a new hydrophilic polymer, Kollicoat IR®, in the formulation of solid dispersions of Itraconazole. *European Journal of Pharmaceutical Sciences*, 30(3–4), pp. 288–294. doi: 10.1016/j.ejps.2006.11.015.
- Juhnke, M., Märtin, D., John, E., 2012. Generation of wear during the production of drug nanosuspensions by wet media milling. *European Journal of Pharmaceutics and Biopharmaceutics*, 81(1), pp. 214–222. doi: 10.1016/j.ejpb.2012.01.005.
- Junyaprasert, V.B., Morakul, B., 2015. Nanocrystals for enhancement of oral bioavailability of poorly water-soluble drugs. *Asian Journal of Pharmaceutical Sciences*. Elsevier Ltd, 10(1), pp. 13–23. doi: 10.1016/j.ajps.2014.08.005.

- Kanaze, F.I., Bounartzi, M.I., Georgarakis, M., Niopas, I., 2007. Pharmacokinetics of the citrus flavanone aglycones hesperetin and naringenin after single oral administration in human subjects. *European Journal of Clinical Nutrition*, 61(4), pp. 472–477. doi: 10.1038/sj.ejcn.1602543.
- Kanaze, F.I., Kokkalau, E., Niopas, I., Barmpalexis, P., Georgarakis, M., Bikiaris, D., 2010. Dissolution rate and stability study of flavanone aglycones, naringenin and hesperetin, by drug delivery systems based on polyvinylpyrrolidone (PVP) nanodispersions. *Drug Development and Industrial Pharmacy*, 36(3), pp. 292–301. doi: 10.3109/03639040903140589.
- Kanaze, F.I., Kokkalau, E., Niopas, I., Georgarakis, M., Stergiou, A., Bikiaris, D., 2006. Dissolution enhancement of flavonoids by solid dispersion in PVP and PEG matrixes: A comparative study. *Journal of Applied Polymer Science*, 102(1), pp. 460–471. doi: 10.1002/app.24200.'
- Kanaze, F.I., Kokkalau, E., Niopas, I., Georgarakis, M., Stergiou, A., Bikiaris, D., 2006. Thermal analysis study of flavonoid solid dispersions having enhanced solubility. *Journal of Thermal Analysis and Calorimetry*, 83(2), pp. 283–290. doi: 10.1007/s10973-005-6989-9.
- Karlsson, J., Engineering, B., 2010. Kollicoat IR / Brij 78 : A stable couple . *Master of Science Theses*. Chalmers University of Technology.
- Kavuru, P., 2008. Crystal Engineering of Flavonoids. *Graduate Theses and Dissertations*. University of South Florida.

- Kipp, J.E., 2004. The role of solid nanoparticle technology in the parenteral delivery of poorly water-soluble drugs. *International Journal of Pharmaceutics*, 284(1–2), pp. 109–122. doi: 10.1016/j.ijpharm.2004.07.019.
- Lee, J., Lee, S.J., Choi, J.Y., Yoo, J.Y., Ahn, C.H., 2005. Amphiphilic amino acid copolymers as stabilizers for the preparation of nanocrystal dispersion. *European Journal of Pharmaceutical Sciences*, 24(5), pp. 441–449. doi: 10.1016/j.ejps.2004.12.010.
- Lestari, M.L.A.D., Müller, R.H., Möschwitzer, J.P., 2015. Systematic screening of different surface modifiers for the production of physically stable nanosuspensions. *Journal of Pharmaceutical Sciences*, 104(3), pp. 1128–1140. doi: 10.1002/jps.24266.
- Lestari, M.L.A.D., Müller, R.H., Möschwitzer, J.P., 2019. The Scalability of Wet Ball Milling for The Production of Nanosuspensions. *Pharmaceutical Nanotechnology*, 7(2), pp. 147–161. doi: 10.2174/221173850766619040 1142530
- Li, M., Alvarez, P., Bilgili, E., 2017. A microhydrodynamic rationale for selection of bead size in preparation of drug nanosuspensions via wet stirred media milling. *International Journal of Pharmaceutics*, 524(1–2), pp. 178–192. doi: 10.1016/j.ijpharm.2017.04.001.
- Liu, F., Park, J.Y., Zhang, Y., Conwell, C., Liu, Y., Bathula, S.R., Huang, L., 2010. Targeted Cancer Therapy With Novel High Drug-Loading Nanocrystals. *Journal of Pharmaceutical Sciences*, 99(8), pp. 3542–3551. doi: 10.1002/jps.
- Liu, P., 2013. Nanocrystal formulation for poorly soluble drugs. *Dissertationes bioscientiarum molecularium*. Universitatis Helsingiensis in Viikki, pp. 62 ISBN 978-952-10-9485-9 (Paperback), ISBN 978-952-10-9486-6 (PDF), ISSN 1799-7372

- Loh, Z.H., Samanta, A.K., Heng, P.W.S., 2015. Overview of milling techniques for improving the solubility of poorly water-soluble drugs. *Asian Journal of Pharmaceutical Sciences*. Elsevier Ltd, 10(4), pp. 255–274. doi: 10.1016/j.ajps.2014.12.006.
- Madras, G., McCoy, B.J., 2004. Temperature effects on the transition from nucleation and growth to Ostwald ripening. *Chemical Engineering Science*, 59(13), pp. 2753–2765. doi: 10.1016/j.ces.2004.03.022.
- Martin, A., Swarbrick, J., Cammarata, A., 2008, *Farmasi Fisik, Edisi Ketiga*, Diterjemahkan dari bahasa Inggris oleh Yosita. Jakarta: UI Press.
- Merisko-Liversidge, E.M., Liversidge, G.G., 2008. Drug Nanoparticles: Formulating Poorly Water-Soluble Compounds. *Toxicologic Pathology*, 36(1), pp. 43–48. doi: 10.1177/0192623307310946.
- Merisko-Liversidge, E., Liversidge, G.G., 2011. Nanosizing for oral and parenteral drug delivery: A perspective on formulating poorly-water soluble compounds using wet media milling technology. *Advanced Drug Delivery Reviews*. Elsevier B.V., 63(6), pp. 427–440. doi: 10.1016/j.addr.2010.12.007.
- Merisko-liversidge, E., Liversidge, G. G., Cooper, E, R., 2003. Nanosizing : a formulation approach for poorly-water-soluble compounds. *European Journal of Pharmaceutical Sciences* 18, pp. 113–120.
- Minitab, 2019. Overview for Contour Plot. Diakses dari <https://support.minitab.com/en-us/minitab/18/help-and-how-to/modeling-statistics/using-fitted-models/how-to/contour-plot/before-you-start/overview/> , pada tanggal 30 Juli 2020.
- Mishra, P.C., Mukherjee, S., Nayak, S.K., Panda, A., 2014. A brief review on viscosity of nanofluids. *International Nano Letters*, 4(4), pp. 109–120. doi: 10.1007/s40089-014-0126-3.

- Muschert, S., Siepmann, F., Leclercq, B., Carlin, B., Siepmann, J., 2009. Drug release mechanisms from ethylcellulose: PVA-PEG graft copolymer-coated pellets. *European Journal of Pharmaceutics and Biopharmaceutics*. Elsevier B.V., 72(1), pp. 130–137. doi: 10.1016/j.ejpb.2008.12.007.
- Newton, A.M.J., Kaur, S., 2019. Solid lipid nanoparticles for skin and drug delivery. *Nanoarchitectonics in Biomedicine*. Elsevier Inc. doi: 10.1016/b978-0-12-816200-2.00015-3.
- Nguyen, C.T., Desgranges, F., Galanis, N., Roy, G., Mare, T., Boucher, S., Mintsu, H.A., 2008. Viscosity data for Al₂O₃–water nanofluid—hysteresis: is heat transfer enhancement using nanofluids reliable. *Int. J. Therm. Sci.* 47(2), 103–111.
- Noyes, A.A., Whitney, W.R., 1897. The rate of solution of solid substances in their own solutions. *Journal of the American Chemical Society*, 19(12), pp. 930–934. doi: 10.1021/ja02086a003.
- Ohenoja, K., 2014. *Particle size distribution and suspension stability in aqueous submicron grinding of CaCO₃ and TiO₂*. doi: 10.13140/RG.2.1.4321.55°.
- Peltonen, L., 2018. Design space and QbD approach for production of drug nanocrystals by wet media milling techniques. *Pharmaceutics*, 10(3). doi: 10.3390/pharmaceutics10030104.
- Ploehn, H.J., Russel, W.B., 1990. Interactions Between Colloidal Particles and Soluble Polymers. *Advances in Chemical Engineering*, 15(C), pp. 137–228. doi: 10.1016/S0065-2377(08)60194-5.
- Pu, X., Sun, J., Li, M., He, Z., 2012. Formulation of Nanosuspensions as a New Approach for the Delivery of Poorly Soluble Drugs. *Current Nanoscience*, 5(4), pp. 417–427. doi: 10.2174/157341309789378177.

- Rabinow, B.E., 2004. Nanosuspensions in drug delivery. *Nature Reviews Drug Discovery*, 3(9), pp. 785–796. doi: 10.1038/nrd1494.
- Rusdin, A., 2020. Pengaruh Electrical Double Layer dan Zeta Potensial terhadap Kestabilan Obat. Diakses dari <https://farmasetika.com/2020/02/14/pengaruh-electrical-double-layer-dan-zeta-potensial-terhadap-kestabilan-obat/>, pada 12 Agustus 2020.
- Shegokar, R., Müller, R.H., 2010. Nanocrystals: Industrially feasible multifunctional formulation technology for poorly soluble actives. *International Journal of Pharmaceutics*. Elsevier B.V., 399(1–2), pp. 129–139. doi: 10.1016/j.ijpharm.2010.07.044.
- Sheskey, P.J., Cook, W.G., Cable, C.G., 2017. *Handbook of Pharmaceutical Excipients. 8th Edition*. London: Pharmaceutical Press.
- Shin, H., Lee, S., Jung, H.S., Kim, J.B., 2013. Effect of ball size and powder loading on the milling efficiency of a laboratory-scale wet ball mill. *Ceramics International*. Elsevier, pp. 1–6. doi: 10.1016/j.ceramint.2013.04.093.
- Siepmann, F., Hoffmann, A., Leclercq, B., Carlin, B., Siepmann, J., 2007. How to adjust desired drug release patterns from ethylcellulose-coated dosage forms. *Journal of Controlled Release*, 119(2), pp. 182–189. doi: 10.1016/j.jconrel.2007.02.003.
- Sinha, B., Müller, R.H., Möschwitzer, J.P., 2013. Bottom-up approaches for preparing drug nanocrystals: Formulations and factors affecting particle size. *International Journal of Pharmaceutics*. Elsevier B.V., 453(1), pp. 126–141. doi: 10.1016/j.ijpharm.2013.01.019.

- Sinswat, P., Gao, X., Yacaman, M, J., William III, R, O., 2005. Stabilizer choice for rapid dissolving high potency itraconazole particles formed by evaporative precipitation into aqueous solution. *International Journal of Pharmaceutics*, 302(1–2), pp. 113–124. doi: 10.1016/j.ijpharm.2005.06.027.
- Srirangam, R., Majumdar, S., 2010. Passive asymmetric transport of hesperetin across isolated rabbit cornea. *International Journal of Pharmaceutics*. Elsevier B.V., 394(1–2), pp. 60–67. doi: 10.1016/j.ijpharm.2010.04.036.
- Tuomela, A., Hirvonen, J., Peltonen, L., 2016. Stabilizing agents for drug nanocrystals: Effect on bioavailability. *Pharmaceutics*, 8(2). doi: 10.3390/pharmaceutics8020016.
- United States Pharmacopeia (USP), 2016. **Optical Microscope**, The United States Pharmacopeial Convention: Rockville. 30(6).
- Verma, S., Kumar, S., Gokhale, R., Burgess, D.J., 2011. Physical stability of nanosuspensions: Investigation of the role of stabilizers on Ostwald ripening. *International Journal of Pharmaceutics*. Elsevier B.V., 406(1–2), pp. 145–152. doi: 10.1016/j.ijpharm.2010.12.027.
- Verma, S., Lan, Y., Gokhale, R., Burgess, D.J., 2009. Quality by design approach to understand the process of nanosuspension preparation. *International Journal of Pharmaceutics*, 377(1–2), pp. 185–198. doi: 10.1016/j.ijpharm.2009.05.006.
- Wang, Y., Zhang, L., Wang, Q., Zhang, D., 2013. Stability issue of nanosuspensions in drug delivery', *Journal of Controlled Release*. Elsevier B.V. doi: 10.1016/j.jconrel.2013.08.006.

- Wei, Q., Keck, C.M., Müller, R.H., 2018. Solidification of hesperidin nanosuspension by spray drying optimized by design of experiment (DoE). *Drug Development and Industrial Pharmacy*. Taylor & Francis, 44(1), pp. 1–12. doi: 10.1080/03639045.2017.1285309.
- Wu, C., McGinity, J.W., 2000. Influence of relative humidity on the mechanical and drug release properties of theophylline pellets coated with an acrylic polymer containing methylparaben as a non-traditional plasticizer. *European Journal of Pharmaceutics and Biopharmaceutics*, 50(2), pp. 277–284. doi: 10.1016/S0939-6411(99)00088-0.
- Wu, L., Zhang, J., Watanabe, W., 2011. Physical and chemical stability of drug nanoparticles. *Advanced Drug Delivery Reviews*, 63(6), pp. 456–469. doi: 10.1016/j.addr.2011.02.001.
- Xie, T., Taylor, L.S., 2017. Effect of Temperature and Moisture on the Physical Stability of Binary and Ternary Amorphous Solid Dispersions of Celecoxib. *Journal of Pharmaceutical Sciences*. Elsevier Ltd, 106(1), pp. 100–110. doi: 10.1016/j.xphs.2016.06.017.
- Zhang, X., Servos, M.R., Liu, J., 2012. Ultrahigh nanoparticle stability against salt, pH, and solvent with retained surface accessibility via depletion stabilization. *Journal of the American Chemical Society*, 134(24), pp. 9910–9913. doi: 10.1021/ja303787e.