

DAFTAR PUSTAKA

1. Wulandari MF, Ngai FE, Isabel CF, Dyatmika AKU, Rosari FP, Setyaningsih D, et al. Potensi daun dan bunga telang (*Clitoria ternatea* L.) sebagai antioksidan. *Medicinus*. 2022;35(2).
2. Lucida H, Bakhtiar A. Peningkatan kelarutan kuersetin melalui pembentukan kompleks inklusi dengan β-siklodekstrin. Jurnal Sains dan Teknologi Farmasi. 2008.;13(2):109-14
3. Ramadhana AF, Chaerunisa AY, Sopyan I. Dispersi padat sebagai metode peningkatan kelarutan bahan obat dalam tablet: formulasi dan karakterisasi. *Farmaka*. 2020;18(1);1-15.
4. Handayani L, Aprilia S, Arahman N, Bilad MR. Identification of the anthocyanin profile from butterfly pea (*Clitoria ternatea* L.) flowers under varying extraction conditions: Evaluating its potential as a natural blue food colorant and its application as a colorimetric indicator. *S Afr J Chem Eng*. 2024 Jul 1;49:151–61.
5. Rajiv Kumar, Avneet Singh, Rajan Salwan, Ritesh Bhanot, Sandeep Rahar, R.K. Dhawan. An informative review on solid dispersion. *GSC Biological and Pharmaceutical Sciences*. 2023 Jan 30;23(1):114–21.
6. Weerapol Y, Tubtimsri S, Jansakul C, Sriamornsak P. Improved dissolution of *Kaempferia parviflora* extract for oral administration by preparing solid dispersion via solvent evaporation. *Asian J Pharm Sci*. 2017 Mar 1;12(2):124–33.
7. Nair AR, Lakshman YD, Anand VSK, Sree KSN, Bhat K, Dengale SJ. Overview of extensively employed polymeric carriers in solid dispersion technology. *AAPS PharmSciTech*. 2020;21(8):302.
8. Pratiwi ANP, Saputri GAR, Ulfa AM. Pengaruh waktu pengeringan beku (freeze drying) terhadap evaluasi fisik sediaan gel bunga telang (*Clitoria ternatea* L.) dengan variasi HPMC. *J Mandala Pharm Indones*. 2023 Dec 31;9(2):552–61.
9. Zahara M. Ulasan singkat: deskripsi kembang telang (*Clitoria ternatea* L.) dan manfaatnya. *J Jeumpa*. 2022 Nov 8;9(2):719–28.
10. Handito D, Basuki E, Saloko S, Gita Dwikasari L, Triani E. Prosiding SAINTEK ANALISIS KOMPOSISI BUNGA TELANG (*Clitoria ternatea*) SEBAGAI ANTIOKSIDAN ALAMI PADA PRODUK PANGAN. LPPM Universitas Mataram. 2022;4.
11. Marpaung AM. Tinjauan manfaat bunga telang (*Clitoria ternatea* L.) bagi kesehatan manusia. *Journal of Functional Food and Nutraceutical*. 2020 Feb 29;1(2):63–85.
12. Rowey C R, Sheskey J P, Quinn E M. Handbook of Pharmaceutical Excipients. 6th ed. London: Pharmaceutical Press; 2009.

13. da Silva Júnior WF, de Oliveira Pinheiro JG, Moreira CDLFA, de Souza FJJ, de Lima ÁAN. Alternative technologies to improve solubility and stability of poorly water-soluble drugs. In: Multifunctional systems for combined delivery, biosensing and diagnostics. Elsevier; 2017. p. 281–305.
14. Brady J, Drig T, Lee PI, Li JX. Polymer properties and characterization. In: Developing solid oral dosage forms: Pharmaceutical theory and practice: Second edition. Elsevier Inc.; 2017. p. 181–223.
15. Octavia N. Ekstraksi kulit buah teh (*Camellia sinensis* L.) pada berbagai lama waktu *ultrasonic-assisted extraction* terhadap aktivitas antioksidan [Skripsi]. Semarang: Semarang University; 2021.
16. Savjani KT, Gajjar AK, Savjani JK. Drug solubility: Importance and enhancement techniques. *ISRN Pharm.* 2012 Jul 5;2012:1–10.
17. Rahman A, Haider MdF. Solubility of drugs, their enhancement, factors affecting and their limitations: A review. *Int J Pharm Sci Rev Res.* 2023 Apr;79(2).
18. Lieberman HA, Lachman L. *The theory and practice of industrial pharmacy*. 3rd ed. New Delhi: CBS Publishers & Distributors; 1986.
19. Kementerian Kesehatan Republik Indonesia. *Farmakope Indonesia*. Edisi VI. Jakarta: Kementerian Kesehatan Republik Indonesia; 2020.
20. Gong Y, Grant DJW, Brittain HG. Principles of solubility. In: Solvent systems and their selection in pharmaceutics and biopharmaceutics. Springer New York; 2007. p. 1–27.
21. Kadam SV, Shinkar DM, Saudagar RB. Review on solubility enhancement techniques. *Int J Pharm Biol Sci.* 2013;3(3):462–475.
22. Kumar LA, Pattnaik G, Satapathy BS, Patro CS, Naik S, Dash AK. Solubility enhancement techniques: updates and prospectives [Internet]. *Journal of Pharmaceutical Negative Results.* 2022;13(8):1761–9.
23. Khatri H, Hussain S, Tyagi S, Hussain MS. Solubility enhancement techniques: an overview [Internet]. *World Journal of Pharmaceutical Research.* 2022;11(1):1–18.
24. Yoga W, Hendriani R. Teknik peningkatan kelarutan obat. *Farmaka.* 2021;19(1):133–40.
25. Sopyan I, Talinta R, Adiningsih N, Putriana NA, Megantara S. Review: methods for enhancing solubility of carvedilol. *Indonesian Journal of Pharmaceutics* [Internet]. 2022;4(1):168–74.
26. Jadav NB, Paradkar A. Solid dispersions: technologies used and future outlook. In: Tekade RK, editor. *Nanopharmaceuticals: Volume 1: Expectations and realities of multifunctional drug delivery systems*. Amsterdam: Elsevier; 2020. p. 91–120.

27. Mohapatra D, Agrawal AK, Sahu AN. Exploring the potential of solid dispersion for improving solubility, dissolution & bioavailability of herbal extracts, enriched fractions, and bioactives. *J Microencapsul.* 2021;38(7):594–612.
28. Tekade AR, Yadav JN. A review on solid dispersion and carriers used therein for solubility enhancement of poorly water soluble drugs. *Adv Pharm Bull.* 2020;10(3):359–69.
29. Shete G, Teja SB, Patil SP, Patel S, Bansal AK. Drug-excipient behavior in polymeric amorphous solid dispersions. *J Excip Food Chem.* 2013;4(3):70–88.
30. Kumar P, Deepika, Khatri H, Singh J. Solubility enhancement techniques by solid dispersion [Internet]. *Journal of Pharma Innovation.* 2020;1(1):10–17.
31. Vo CLN, Park C, Lee BJ. Current trends and future perspectives of solid dispersions containing poorly water-soluble drugs. *Eur J Pharm Biopharm.* 2013;85(3):799–813.
32. Tran P, Pyo YC, Kim DH, Lee SE, Kim JK, Park JS. Overview of the manufacturing methods of solid dispersion technology for improving the solubility of poorly water-soluble drugs and application to anticancer drugs. *Pharmaceutics.* 2019;11(3):132.
33. Sinha S, Ali M, Baboota S, Ahuja A, Kumar A, Ali J. Solid dispersion as an approach for bioavailability enhancement of poorly water-soluble drug ritonavir. *AAPS PharmSciTech.* 2010 Jun;11(2):518–27.
34. Sekiguchi K, Obi N. Studies on absorption of eutectic mixtures. I. A comparison of the behavior of eutectic mixtures of sulphathiazole and that of ordinary sulphathiazole in man. *Chem Pharm Bull (Tokyo).* 1961;9(11):866–72.
35. Palanisamy M, Khanam J. Solid dispersion of prednisolone: solid state characterization and improvement of dissolution profile. *Drug Dev Ind Pharm.* 2011 Apr;37(4):373–86.
36. Genina N, Hadi B, Löbmann K. Hot melt extrusion as solvent-free technique for a continuous manufacturing of drug-loaded mesoporous silica. *J Pharm Sci.* 2018 Jan 1;107(1):149–55.
37. Seo A, Holm P, Kristensen HG, Schaefer T. The preparation of agglomerates containing solid dispersions of diazepam by melt agglomeration in a high shear mixer. *Int J Pharm.* 2003 Jun 18;259(1–2):161–71.
38. Singh A, Van den Mooter G. Spray drying formulation of amorphous solid dispersions. *Adv Drug Deliv Rev.* 2016;100:27–50.
39. Betageri GV, Makarla KR. Enhancement of dissolution of glyburide by solid dispersion and lyophilization techniques. *Int J Pharm.* 1995;126:129–35.

40. Sonali D, Tejal S, Vaishali T, Tejal G. Silymarin-solid dispersions: Characterization and influence of preparation methods on dissolution. *Acta Pharm.* 2010 Dec 1;60(4):427–43.
41. Yu DG, Li JJ, Williams GR, Zhao M. Electrospun amorphous solid dispersions of poorly water-soluble drugs: A review. *J Control Release*. 2018;292:91–110.
42. Voz A, Gibaldi M, Kanig JL. Increasing dissolution rates and gastrointestinal absorption of drugs via solid solutions and eutectic mixtures. III. Experimental evaluation of griseofulvin–succinic acid solid solution. *J Pharm Sci.* 1966;55:847–53.
43. Siow CRS, Wan Sia Heng P, Chan LW. Application of freeze-drying in the development of oral drug delivery systems. *Expert Opin Drug Deliv.* 2016 Nov 1;13(11):1595–608.
44. Jakubowska E, Lulek J. The application of freeze-drying as a production method of drug nanocrystals and solid dispersions – A review. *J Drug Deliv Sci Technol.* 2021 Apr;62:102357.
45. Alshehri S, Imam SS, Altamimi MA, Hussain A, Shakeel F, Elzayat E, Alquraini A, Mohsin K, Ghoneim MM, Alanazi FK. Enhanced dissolution of luteolin by solid dispersion prepared by different methods: Physicochemical characterization and antioxidant activity. *ACS Omega.* 2020 Mar 31;5(12):6461–71.
46. Gupta V, Kumar S, Agrawal R. Solubility enhancement of poorly water soluble drugs by solid dispersion techniques. *Int J Pharma Prof Res.* 2023 Oct;14(4):84–106.
47. Kaushik R, Budhwar V, Kaushik D. An overview on recent patents and technologies on solid dispersion. *Recent Pat Drug Deliv Formul.* 2020 Jan 17;14(1):63–74.
48. Arunachalam G, Subramanian N, Pazhani GP, Karunanithi M, Ravichandran V. Evaluation of anti-inflammatory activity of methanolic extract of *Solanum nigrum* (Solanaceae). *Iran J Pharm Sci.* 2009 Jul;5(3):151–6.
49. Hairiyah N, Rizki Amalia R, Nurisyah N, Studi Agroindustri P, Teknologi Industri Pertanian J, Negeri Tanah Laut P, et al. Perbandingan parameter mutu ekstrak bunga telang (*Clitoria ternatea*) menggunakan metode refluks, sokhlet, dan maserasi. *J Teknol Agroindustri.* 2023 Nov 30;10(2):181.
50. Bhalodiya M, Chavda J, Mori D, Patel N, Manek R, Dudhat K. Formulation and evaluation of amorphous solid dispersion Boerhaavia diffusa methanolic root extract for improving dissolution properties. *J Drug Deliv Sci Technol.* 2021 Dec 1;66:103027.
51. Kurniawati E, Lestari TP, Pertiwi KK. Validasi metode analisis kuersetin dari ekstrak etanol daun kemangi (*Ocimum sanctum* L) secara spektrofotometri UV-Vis. *J Ilm Manuntung Sains Farm Kesehat.* 2024;10(1):72–81.

52. International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH). *Validation of Analytical Procedures Q2(R2)*. ICH Harmonised Guideline. Final version. Adopted 1 November 2023. Available from: <https://www.ich.org/page/quality-guidelines>
53. Kementerian Kesehatan Republik Indonesia. *Farmakope Herbal Indonesia*. Edisi II. Jakarta: Kementerian Kesehatan RI; 2017.
54. Umar S, Usman H, Salsabila H, Zaini E. Solid dispersion of tenoxicam – HPMC by freeze-drying: solid state properties, dissolution study, and analgesic activity in mice. *Open Access Maced J Med Sci*. 2022 Apr 25;10(A):800–6.
55. Rismayuti BA, Supriningrum R, Supomo. Karakterisasi dan skrining fitokimia ekstrak bunga telang (*Clitoria ternatea* L.). *J Ilm Manuntung* [Internet]. 2024 Dec 26;10(2):107–17.
56. Kartikasari D, Nurkhasanah, Pramono S. Karakterisasi simplisia dan ekstrak etanol daun Bertoni (*Stevia rebaudiana*) dari tiga tempat tumbuh. Yogyakarta: Universitas Ahmad Dahlan
57. Chavan SD, Desai DM. Analytical method validation: A brief review. *World J Adv Res Rev*. 2022 Nov 30;16(2):389–402.
58. Harmono HD. Validasi metode analisis logam merkuri (Hg) terlarut pada air permukaan dengan automatic mercury analyzer. *J Lab*. 2020;2(3):11–6.
59. Lopez Garcia P, Buffoni E, Gomes FP, Vilchez Quero JL. Analytical method validation [Internet]. In: Otles S, editor. *Pharmaceutical Analytical Chemistry*. London: IntechOpen; 2012 [cited 2025 May 11]. Available from: <https://www.intechopen.com/chapters/29378>
60. Swartz ME, Krull IS. *Handbook of Analytical Validation*. Boca Raton (FL): CRC Press; 2012.
61. Fernandes AJD, Ferreira MRA, Randau KP, de Souza TP, Soares LAL. Total flavonoids content in the raw material and aqueous extractives from *Bauhinia monandra* Kurz (Caesalpiniaceae). *ScientificWorldJournal*. 2012;2012:923462.
62. Azizah DN, Kumolowati E, Faramayuda F. Penetapan kadar flavonoid metode AlCl_3 pada ekstrak metanol kulit buah kakao (*Theobroma cacao* L.). *Keahlian Biologi Farmasi K, Farmasi Universitas Jenderal Achmad Yani*. 2014 Des;2014(2):45–9.
63. Da Silva LAL, Pezzini BR, Soares L. Spectrophotometric determination of the total flavonoid content in *Ocimum basilicum* L. (Lamiaceae) leaves. *Pharmacogn Mag*. 2015 Jan;11(41):96–101.
64. Guntarti A, Annisa J, Mughniy M, Rizqi F. Effect of regional variation on the total flavonoid level of ethanol extract of mangosteen (*Garcinia mangostana*) peels. *J Kedokt Kesehat Indones*. 2017 Jun 17;8(2):136–43.