

DAFTAR PUSTAKA

- Akbik, D., Ghadiri, M., Chrzanowski, W., & Rohanizadeh, R. (2014). Curcumin as a wound healing agent. *Life Sciences*, 116(1), 1–7. <https://doi.org/10.1016/j.lfs.2014.08.016>
- Ariastika, D., Suryani, Wahyuni, & Rahmapiu. (2016). Formulasi Nanopartikel Kurkumin dengan Teknik Gelasi Ionik Menggunakan Kitosan, Tripolifosfat dan Natrium Alginat serta Uji Stabilitasnya Secara In Vitro. *Majalah Farmasi*, 2(1), 18. <http://ojs.uho.ac.id/index.php/pharmauh/o/article/view/3476>
- B. Wahlström; G. Blennow; Acta Pharmacol. (1978). *Toxico*.
- Barzegar, A., & Moosavi-Movahedi, A. A. (2011). Intracellular ROS protection efficiency and free radical-scavenging activity of curcumin. *PLoS ONE*, 6(10), 1–7. <https://doi.org/10.1371/journal.pone.0026012>
- Buzea, C., Pacheco, I. I., & Robbie, K. (2007). Nanomaterials and nanoparticles: Sources and toxicity. *Biointerphases*, 2(4), MR17–MR71. <https://doi.org/10.1116/1.2815690>
- Cas, M. D., & Ghidoni, R. (2019). Dietary curcumin: Correlation between bioavailability and health potential. *Nutrients*, 11(9), 1–14. <https://doi.org/10.3390/nu11092147>
- Esatbeyoglu, T., Huebbe, P., Ernst, I. M. A., Chin, D., Wagner, A. E., & Rimbach, G. (2012). Curcumin-from molecule to biological function. *Angewandte Chemie - International Edition*, 51(22), 5308–5332. <https://doi.org/10.1002/anie.201107724>
- Fahmi, M. Z. (2019). *Nanoteknologi Dalam Perspektif Kesehatan*. Airlangga Univesity Pressr.
- Fitri, D., Kiromah, N. Z. W., & Widiastuti, T. C. (2020). Formulasi Dan Karakterisasi Nanopartikel Ekstrak Etanol Daun Salam (*Syzygium polyanthum*) Pada Berbagai Variasi Komposisi Kitosan Dengan Metode Gelasi Ionik. *JPSCR: Journal of Pharmaceutical Science and Clinical Research*, 5(1), 61. <https://doi.org/10.20961/jpscr.v5i1.39269>
- Floridha, Fudhita; Pristy, A. (2016). *Nanoteknologi Di Bidang Kesehatan*. UB Press.

- Giannopoulou, I., Saïs, F., & Thomopoulos, R. (2015). Handbook Of Pharmaceutical Excipients. *Revue Des Nouvelles Technologies de l'Information*, E.28, 257–262.
- Hafizuddin, M., & Che, B. (2016). Reinforcement of Chitosan Nanoparticles Obtained by an Ionic Cross-linking Process. 25(3), 1–23.
- Herdiana, Y., Handaresta, D., Joni, I., Wathoni, N., & Muchtaridi, M. (2020). Synthesis of nano- α mangostin based on chitosan and Eudragit S 100. *Journal of Advanced Pharmaceutical Technology and Research*, 11(3), 95–100. https://doi.org/10.4103/japtr.JAPTR_182_19
- Joshi, M. (2013). Role of Eudragit in targeted drug delivery. *International Journal of Current Pharmaceutical Research*, 5(2), 58–62.
- Juliantoni, Y., Hajrin, W., & Subaidah, W. A. (2020). Nanoparticle Formula Optimization of Juwet Seeds Extract (Syzygium cumini) using Simplex Lattice Design Method. *Jurnal Biologi Tropis*, 20(3), 416–422. <https://doi.org/10.29303/jbt.v20i3.2124>
- Lin, Y. H., Sonaje, K., Lin, K. M., Juang, J. H., Mi, F. L., Yang, H. W., & Sung, H. W. (2008). Multi-ion-crosslinked nanoparticles with pH-responsive characteristics for oral delivery of protein drugs. *Journal of Controlled Release*, 132(2), 141–149. <https://doi.org/10.1016/j.jconrel.2008.08.020>
- Martins, Joao Pedro; Santos, H. A. (2020). *Nanotechnology For Oral Drug Delivery*. Academic Press.
- Mishra, V. K., Mohammad, G., & Mishra, S. K. (2008). Downregulation of Telomerase Activity May Enhanced By Nanoparticle Mediated Curcumin Delivery. *Journal of Nanomaterials*, 3(4), 163–169.
- Muhammadiyah, U., Pekalongan, P., & Artikel, I. (2021). Pengujian Karakter Nanopartikel Metode Gelasi Ionik Ekstrak dan Tablet Daun Afrika. 147–151.
- Murdock, R. C., Braydich-Stolle, L., Schrand, A. M., Schlager, J. J., & Hussain, S. M. (2008). Characterization of nanomaterial dispersion in solution prior to in vitro exposure using dynamic light scattering technique. *Toxicological Sciences*, 101(2), 239–253. <https://doi.org/10.1093/toxsci/kfm240>
- Nisa, M., Khairuddin, & Rafiana, N. (2020). Formulation and Characterization of Self Nano Emulsion Drug Delivery System Rice Bran Oil Formulasi dan

- Karakterisasi Self Nanoemulsi Drug Delivery System Minyak Dedak Padi (Rice Bran Oil). *Journal of Pharmaceutical and Medicinal Sciences*, 5(2), 32–37.
- Nugroho, Agung; Nurhayati, Nanik; Utami, B. (2011). Sintesis dan Karakterisasi Membran Kitosan Untuk Aplikasi Sensor Deteksi Logam. *Molekul*, 2, 123–136.
- Patravale, V. B., Date, A. A., & Kulkarni, R. M. (2010). Nanosuspensions: a promising drug delivery strategy. *Journal of Pharmacy and Pharmacology*, 56(7), 827–840. <https://doi.org/10.1211/0022357023691>
- Prayoga, Tria; Lisnawati, N. (2020). *Ekstrak Etanol Daun Iler (Coleus Antropurpureus L. Benth)*. CV. Jakad Media Publishing
- Putri, A. I., Sundaryono, A., & Chandra, I. N. (2019). Karakterisasi Nanopartikel Ekstrak Daun Ubi Jalar (Ipomoea batatas L.) Menggunakan Metode Gelasi Ionik. *Alotrop*, 2(2), 203–207. <https://doi.org/10.33369/atp.v2i2.7561>
- Putri, V. R. (2015). *Pengaruh Variasi Konsentrasi Surfaktan pada Ukuran Partikel dan Efisiensi Penyerapan Niosom yang Mengandung Ekstrak Etanol 96% Kulit Batang Nangka (Artocarpus Heterophyllus)* (Issue April).
- Samudra, A. G., Ramadhani, N., Lestari, G., & Nugroho, B. H. (2021). Formulasi Nanopartikel Kitosan Ekstrak Metanol Alga Laut Coklat (*Sargassum hystrix*) Dengan Metode Gelasi Ionik. *Jurnal Ilmiah Manuntung*, 7(1), 92–99.
- Setianingsih, Tutik; Prananto, Y. P. (2020). *Spektroskopi Inframerah Untuk Karakterisasi Material Anorganik*. UB Press.
- Shiyan, S. (2021). *Teknologi Fitofarmasetika: Sistem Pembawa Katekin dan EGCG pada Terapi Diabetes*.
- Sopyan, I. (2020). *Kokristalisasi: Modifikasi Padatan Farmasi Sebagai Strategi Perbaikan Sifat Fisikokimia Obat*.
- Sugita, Purwantiningsih; Wukirsari, Tuti; Sjahriza, Ahmad; Wahyono, D. (2009). *Kitosan: Sumber Biomaterial Masa Depan*. IPB Press.
- Sugita, P., Bintang, M., Achmad, S., Pradoni, D., Irwadi, T., & Darusman, L. (2016). *Segi Kimia dan Biokimiawi Dari Sistem Penghantaran Obat*.
- Taba, P., Parmitha, N. Y., & Kasim, S. (2019). Sintesis Nanopartikel Perak Menggunakan Ekstrak Daun Salam (*Syzygium polyanthum*) Sebagai

- Bioreduktor dan Uji Aktivitasnya Sebagai Antioksidan Synthesis of Silver Nanoparticles Using Syzygium polyanthum Extract as Bioreductor and the Application as Antioxi. *J. Chem. Res.*, 7(1), 51–60.
- Tao, Y., Zhang, H. L., Hu, Y. M., Wan, S., & Su, Z. Q. (2013). Preparation of chitosan and water-soluble chitosan microspheres via spray-drying method to lower blood lipids in rats fed with high-fat diets. *International Journal of Molecular Sciences*, 14(2), 4174–4184. <https://doi.org/10.3390/ijms14024174>
- Taurina, W., Sari, R., Cindy Hafinur, U., Wahdaningsih, S., & Isnindar. (2017). Optimasi kecepatan dan lama pengadukan terhadap ukuran nanopartikel kitosan-ekstrak etanol 70% kulit jeruk siam (*Citrus nobilis* L.var *Microcarpa*). *Traditional Medicine Journal*, 22(1), 16–20.
- Thermo, N. (2001). *Introduction to FTIR Spectrometry*. Thermo Nicolet Inc.
- Wang, J. J., Zeng, Z. W., Xiao, R. Z., Xie, T., Zhou, G. L., Zhan, X. R., & Wang, S. L. (2011). Recent advances of chitosan nanoparticles as drug carriers. *International Journal of Nanomedicine*, 6, 765–774. <https://doi.org/10.2147/ijn.s17296>
- Wijaya, D. P. (2013). *Preparasi Nanopartikel Sambung Silang Kitosan-Tripolifosfat Yang Mengandung Kitosan-Tripolifosfat Yang Mengandung*.
- Wulan Sari, N., Fajri, M. Y., & W, A. (2018). Analisis Fitokimia Dan Gugus Fungsi Dari Ekstrak Etanol Pisang Goroho Merah (*Musa Acuminata* (L)). *Ijobb*, 2(1), 30.
- Xu, B., Zhang, W., Chen, Y., Xu, Y., Wang, B., & Zong, L. (2018). Eudragit® L100-coated mannosylated chitosan nanoparticles for oral protein vaccine delivery. *International Journal of Biological Macromolecules*, 113, 534–542. <https://doi.org/10.1016/j.ijbiomac.2018.02.016>
- Yang, Q., Dou, F., Liang, B., & Shen, Q. (2005). Studies of cross-linking reaction on chitosan fiber with glyoxal. *Carbohydrate Polymers*, 59(2), 205–210. <https://doi.org/10.1016/j.carbpol.2004.09.013>
- Yuliantini, A. (2020). Deteksi Tespong (*Oenanthe javanica*) Pada Bahan Baku Daun Ashitaba (*Angelica Keiskei*) Menggunakan Metode Ftir Yang Dikombinasikan Dengan Pca. *Indonesia Natural Research Pharmaceutical Journal*, 5(2), 114–123. <https://doi.org/10.52447/inspj.v5i2.4230>

Yuwanda,Alhara; Rahmawati,Dewi; Farmasita, R. (2021). *Sistem Penghantaran Obat Dan Pentargetan Sediaan Nanopartikel Dan Penghantarannya*. Media Sains Indonesia.