

DAFTAR PUSTAKA

- Abubakar, a., ugail, h., smith, k. m., bukar, a. m., & elmahmudi, a. (2020). burns depth assessment using deep learning features. *journal of medical and biological engineering*, 40(6), 923–933. <https://doi.org/10.1007/s40846-020-00574-z>
- Aini, n. n., wijayatri, r., & pribadi, p. (2022). nanoemulsion characteristics preparations ethanol leaf extracts in various plants: literature review. *jurnal farmasi sains dan praktis*, 215–226. <https://doi.org/10.31603/pharmacy.v8i3.4786>
- Alvarado, h. l., abrego, g., soto, e. b., garduño-ramirez, m. l., clares, b., garcía, m. l., & calpena, a. c. (2015). nanoemulsions for dermal controlled release of oleanolic and ursolic acids: in vitro, ex vivo and in vivo characterization. *colloids and surfaces b: biointerfaces*, 130, 40–47. <https://doi.org/10.1016/j.colsurfb.2015.03.062>
- Alwie, r. r., mumpuni, e., sulastris, l., & simanjuntak, p. (2021). aktivitas ekstrak etanol daun salam [*syzygium polyanthum* (wight) walp.] sebagai penghambat enzim α -glukosidase dan studi secara in silico. *jurnal fitofarmaka indonesia*, 8(2), 36–42. <https://doi.org/10.33096/jffi.v8i2.750>
- Amin, n., & das, b. (2019). a review on formulation and characterization of nanoemulsion. *international journal of current pharmaceutical research*, 1–5. <https://doi.org/10.22159/ijcpr.2019v11i4.34925>
- Anggraini, a., dokter, p., kedokteran, f., & lampung, u. (n.d.). *manfaat antioksidan daun salam terhadap kadar glukosa darah dan penurunan apoptosis neuron di hippocampus otak tikus yang mengalami diabetes*. <http://jurnalmedikahutama.com>
- Anjum, v., bagale, u., kadi, a., malinin, a., potoro, i., alharbi, a. h., khafaga, d. s., almetwally, m., qenawy, a. s. t., anjum, a., & ali, f. (2024). process optimization of tinospora cordifolia extract-loaded water in oil nanoemulsion developed by ultrasound-assisted homogenization. *molecules*, 29(8). <https://doi.org/10.3390/molecules29081797>
- Badriyah, l., aminatul fariyah, d., & farmasi kusuma husada purwokerto, a. (n.d.). analisis ekstraksi kulit bawang merah (*allium cepa* l.) menggunakan metode maserasi. in *j. sintesis submitted: 15 mei* (vol. 2022, issue 1). *bhattacharjee2016*. (n.d.).
- Chen, y. s., chiu, y. h., li, y. s., lin, e. y., hsieh, d. k., lee, c. h., huang, m. h., chuang, h. m., lin, s. z., harn, h. j., & chiou, t. w. (2019). integration of peg 400 into a self-nanoemulsifying drug delivery system improves drug loading capacity and nasal mucosa permeability and prolongs the survival of rats with malignant brain tumors. *international journal of nanomedicine*, 14, 3601–3613. <https://doi.org/10.2147/ijn.s193617>
- Dari, c., si, y., douliez, j.-p., tahon, j.-f., benezech, t., clegg, p. s., & fameau, a.-l. (2023). mixture of fatty alcohols and alkyl polyglucosides stabilizing water-

- in-water emulsions. *frontiers in soft matter*, 3. <https://doi.org/10.3389/frsfm.2023.1328195>
- Dewijanti, i. d., mangunwardoyo, w., artanti, n., & hanafi, m. (2019). bioactivities of salam leaf (*syzygium polyanthum* (wight) walp). *aip conference proceedings*, 2168. <https://doi.org/10.1063/1.5132499>
- Elshamy, a. i., ammar, n. m., hassan, h. a., el-kashak, w. a., al-rejaie, s. s., abd-elgawad, a. m., & farrag, a. r. h. (2020a). topical wound healing activity of myricetin isolated from *tecomaria capensis* v. *aurea*. *molecules*, 25(21). <https://doi.org/10.3390/molecules25214870>
- Elshamy, a. i., ammar, n. m., hassan, h. a., el-kashak, w. a., al-rejaie, s. s., abd-elgawad, a. m., & farrag, a. r. h. (2020b). topical wound healing activity of myricetin isolated from *tecomaria capensis* v. *aurea*. *molecules*, 25(21). <https://doi.org/10.3390/molecules25214870>
- Feng, s. m., zhao, y., xu, q., li, h. m., huang, y. x., liu, h. h., & xu, c. b. (2020). development and characterization of a new dimethicone nanoemulsion and its application for electronic gastroscopy examination. *international journal of nanomedicine*, 15, 5405–5416. <https://doi.org/10.2147/ijn.s251113>
- Garg, j., pathania, k., sah, s. p., & pawar, s. v. (2022). nanostructured lipid carriers: a promising drug carrier for targeting brain tumours. *future journal of pharmaceutical sciences*, 8(1). <https://doi.org/10.1186/s43094-022-00414-8>
- Gilaberte, y., prieto-torres, l., pastushenko, i., & juarranz, á. (2016). anatomy and function of the skin. in *nanoscience in dermatology* (pp. 1–14). elsevier inc. <https://doi.org/10.1016/b978-0-12-802926-8.00001-x>
- Grenier, d., chen, h., lagha, a. ben, fournier-larente, j., & morin, m. p. (2015). dual action of myricetin on *porphyromonas gingivalis* and the inflammatory response of host cells: a promising therapeutic molecule for periodontal diseases. *plos one*, 10(6). <https://doi.org/10.1371/journal.pone.0131758>
- Gulomovna, b., sarvinoz, m., & mavluda, r. (2023). *eurasian journal of medical and natural sciences skin-related problems*. <https://doi.org/10.5281/zenodo.10430286>
- Guo, x., sun, x. t., liang, l., shi, l. k., liu, r. j., chang, m., & wang, x. g. (2021). physical stability, oxidative stability, and bioactivity of nanoemulsion delivery systems incorporating lipophilic ingredients: impact of oil saturation degree. *journal of agricultural and food chemistry*, 69(18), 5405–5415. <https://doi.org/10.1021/acs.jafc.1c00013>
- Gupta, v., & trivedi, p. (2018). in vitro and in vivo characterization of pharmaceutical topical nanocarriers containing anticancer drugs for skin cancer treatment. in *lipid nanocarriers for drug targeting* (pp. 563–627). elsevier. <https://doi.org/10.1016/b978-0-12-813687-4.00015-3>
- Han, b., yu, b., liu, l., xiu, y., & wang, h. (2019). experimental investigation of the strong stability, antibacterial and anti-inflammatory effect and high bioabsorbability of a perilla oil or linseed oil nanoemulsion system. *rsc advances*, 9(44), 25739–25749. <https://doi.org/10.1039/c9ra03595h>

- Hanifah, m., & jufri, m. (2018). formulation and stability testing of nanoemulsion lotion containing centella asiatica extract. *journal of young pharmacists*, 10(4), 404–408. <https://doi.org/10.5530/jyp.2018.10.89>
- Hasan, r., lindarto, d., siregar, g. a., & mukhtar, z. (2020). the effect of bay leaf extract syzygium polyanthum (wight) walp. on c-reactive protein (crp) and myeloperoxidase (mpo) level in the heart of rat model of myocardial infarction. *medicinski glasnik*, 17(1), 41–45. <https://doi.org/10.17392/1068-20>
- Hay, r. j., johns, n. e., williams, h. c., bolliger, i. w., dellavalle, r. p., margolis, d. j., marks, r., naldi, l., weinstock, m. a., wulf, s. k., michaud, c., j.l. murray, c., & naghavi, m. (2014). the global burden of skin disease in 2010: an analysis of the prevalence and impact of skin conditions. *journal of investigative dermatology*, 134(6), 1527–1534. <https://doi.org/10.1038/jid.2013.446>
- Hernawati, d., suharyati, s., nurkamilah, s., & biologi, p. (n.d.). *perbandingan aktivitas antibakteri bawang putih (allium sativum) dengan varietas berbeda secara in vitro terhadap pertumbuhan bakteri escherichia coli*.
- Jafar, g., abdassah, m., rusdiana, t., & khairunisa, r. (2021). development and characterization of precirrol ato 88 base in nanostructured lipid carriers (nlc) formulation with the probe sonication method. *international journal of applied pharmaceutics*, 13(special issue 3), 43–46. <https://doi.org/10.22159/ijap.2021.v13s3.08>
- Jafar, g., adiyati, i., farras kartanagara sekolah tinggi farmasi bandung, rf., & soekarno hatta no, j. (2017). pengembangan formula dan karakterisasi nanoemulsi ekstrak kombinasi daun teh dan mangkoka yang diinkorporasikan ke dalam spray sebagai penumbuh rambut. *jurnal pharmascience*, 04(02), 155–166. <http://jps.unlam.ac.id/>
- Jaiswal, m., dudhe, r., & sharma, p. k. (2015). nanoemulsion: an advanced mode of drug delivery system. in *3 biotech* (vol. 5, issue 2, pp. 123–127). springer verlag. <https://doi.org/10.1007/s13205-014-0214-0>
- Jeong, w. y., kwon, m., choi, h. e., & kim, k. s. (2021). recent advances in transdermal drug delivery systems: a review. in *biomaterials research* (vol. 25, issue 1). biomed central ltd. <https://doi.org/10.1186/s40824-021-00226-6>
- Ji, q., tang, j., li, s., & chen, j. (2023). survival and analysis of prognostic factors for severe burn patients with inhalation injury: based on the respiratory sofa score. *bmc emergency medicine*, 23(1). <https://doi.org/10.1186/s12873-022-00767-6>
- Jing, n., & li, x. (2020). dihydromyricetin attenuates inflammation through tlr4/nf-kappab pathway. in *open medicine (poland)* (vol. 14, issue 1, pp. 719–725). de gruyter open ltd. <https://doi.org/10.1515/med-2019-0083>
- Kawish, s. m., ahmed, s., gull, a., aslam, m., pandit, j., aqil, m., & sultana, y. (2017). development of nabumetone loaded lipid nano-scaffold for the effective oral delivery; optimization, characterization, drug release and pharmacodynamic study. *journal of molecular liquids*, 231, 514–522. <https://doi.org/10.1016/j.molliq.2017.01.107>
- Kováčik, a., kopečná, m., & vávrová, k. (2020). permeation enhancers in transdermal drug delivery: benefits and limitations. in *expert opinion on drug*

- delivery* (vol. 17, issue 2, pp. 145–155). taylor and francis ltd. <https://doi.org/10.1080/17425247.2020.1713087>
- Ling, w., florenly, f., lien, l., & purba, d. r. (2021). effectiveness of turmeric ethanol extract cream preparation (*curcuma longa*) in speeding up wound healing in male wistar rats. *budapest international research in exact sciences (birex) journal*, 4(1), 10–21. <https://doi.org/10.33258/birex.v4i1.3472>
- Maharini, m., rismarika, r., & yusnelti, y. (2020). pengaruh konsentrasi peg 400 sebagai kosurfaktan pada formulasi nanoemulsi minyak kepayang. *chempublish journal*, 5(1), 1–14. <https://doi.org/10.22437/chp.v5i1.7604>
- Martiningsih, s. h., kusumawati, d., pgri, u., puri, m., & kartini, r. (n.d.-a). uji skrining fitokimia pada ekstrak etanol 96% dan ekstrak air daun salam (*syzygium polyanthum* (wight) walp.). in *seminar nasional prodi farmasi unipma (snapfarma)* (vol. 2023). <http://prosiding.unipma.ac.id/index.php/snapfarma>
- Martiningsih, s. h., kusumawati, d., pgri, u., puri, m., & kartini, r. (n.d.-b). uji skrining fitokimia pada ekstrak etanol 96% dan ekstrak air daun salam (*syzygium polyanthum* (wight) walp.). in *seminar nasional prodi farmasi unipma (snapfarma)* (vol. 2023). <http://prosiding.unipma.ac.id/index.php/snapfarma>
- Ng, k. w., & lau, w. m. (2015). skin deep: the basics of human skin structure and drug penetration. in *percutaneous penetration enhancers chemical methods in penetration enhancement: drug manipulation strategies and vehicle effects* (pp. 3–11). springer berlin heidelberg. https://doi.org/10.1007/978-3-662-45013-0_1
- Nurdianti, l., ariyani, r., & indra, i. (2017). formulasi dan karakterisasi sne (self nanoemulsion) astaxanthin dari *haematococcus pluvialis* sebagai super antioksidan alami. *jurnal sains farmasi & klinis*, 4(1), 36. <https://doi.org/10.29208/jsfk.2017.4.1.168>
- Nurdianti, l., setiawan, f., maya, i., rusdiana, t., kusumawulan, c. k., gozali, d., & virgianti, d. p. (2024). formulation and evaluation of radiance serum containing astaxanthin–zeaxanthin nanoemulsions as an anti-wrinkle agent: stability, ex vivo, and in vivo assessments. *cosmetics*, 11(5). <https://doi.org/10.3390/cosmetics11050182>
- Owda, a. y., salmon, n., shylo, s., & owda, m. (2019). assessment of bandaged burn wounds using porcine skin and millimetric radiometry. *sensors (switzerland)*, 19(13). <https://doi.org/10.3390/s19132950>
- Pagalla, d. b. (n.d.). *buku isbn ekstraksi bahan alam*. <https://www.researchgate.net/publication/381613640>
- Patel, r., patel, a., prajapati, b., shinde, g., & dharamsi, a. (2018). transdermal drug delivery systems: a mini review. *international journal of advanced research*, 6(5), 891–900. <https://doi.org/10.21474/ijar01/7109>
- Peng, k., preisig, n., sottomann, t., & stubenrauch, c. (2021). from water-rich to oil-rich gelled non-toxic microemulsions. *physical chemistry chemical physics*, 23(31), 16855–16867. <https://doi.org/10.1039/d1cp02522h>

- Peng, k., sottomann, t., & stubenrauch, c. (2021). gelled non-toxic bicontinuous microemulsions as promising transdermal drug carriers. *molecular physics*, 119(15–16). <https://doi.org/10.1080/00268976.2021.1886363>
- Pongsumpun, p., iwamoto, s., & siripatrawan, u. (2020). response surface methodology for optimization of cinnamon essential oil nanoemulsion with improved stability and antifungal activity. *ultrasonics sonochemistry*, 60. <https://doi.org/10.1016/j.ultsonch.2019.05.021>
- Pradita fiqlyanur isna primadana, tristiana erawati, noorma rosita, & hamdan, s. h. (2024). application of the simplex lattice design method to determine the optimal formula nanoemulsion with virgin coconut oil and palm oil. *jurnal farmasi dan ilmu kefarmasian indonesia*, 11(3), 395–401. <https://doi.org/10.20473/jfiki.v11i32024.395-401>
- Qian, l. w., fourcaudot, a. b., & leung, k. p. (2017). silver sulfadiazine retards wound healing and increases hypertrophic scarring in a rabbit ear excisional wound model. *journal of burn care and research*, 38(1), e418–e422. <https://doi.org/10.1097/bcr.0000000000000406>
- Radzikowska-büchner, e., łopuszyńska, i., flieger, w., tobiasz, m., maciejewski, r., & flieger, j. (2023). an overview of recent developments in the management of burn injuries. in *international journal of molecular sciences* (vol. 24, issue 22). multidisciplinary digital publishing institute (mdpi). <https://doi.org/10.3390/ijms242216357>
- Richard, m. a., paul, c., nijsten, t., gisoni, p., salavastru, c., taieb, c., trakatelli, m., puig, l., & stratigos, a. (2022). prevalence of most common skin diseases in europe: a population-based study. *journal of the european academy of dermatology and venereology*, 36(7), 1088–1096. <https://doi.org/10.1111/jdv.18050>
- Rowe, r. c., sheskey, p. j., & owen, s. c. (n.d.). *handbook of pharmaceutical excipients fifth edition*.
- Rybarczyk, m. m., schäfer, j. m., elm, c. m., sarvepalli, s., vaswani, p. a., balhara, k. s., carlson, l. c., & jacquet, g. a. (2017). revue systématique des cas de blessures par brûlure dans les pays à revenu faible et intermédiaire: épidémiologie dans la région africaine de l'oms. in *african journal of emergency medicine* (vol. 7, issue 1, pp. 30–37). african federation for emergency medicine. <https://doi.org/10.1016/j.afjem.2017.01.006>
- Shaikh, t. y., & lodhi, s. (2024). preparation, characterization and evaluation of myricetin-loaded nanoemulsion for therapeutic efficacy in wound healing. *international journal of applied pharmaceuticals*, 16(1), 61–70. <https://doi.org/10.22159/ijap.2024v16i1.49112>
- Silaban, e., lister, n., & fachrial, e. (n.d.). utilization of haramounting nano-herbal(rhodomirtustomentosa) in burn wound healing ii in rats. *iosr journal of pharmacy and biological sciences (iosr-jpbs) e-issn*, 15, 46–51. <https://doi.org/10.9790/3008-1504034651>
- Sinurat, j. a. n., bulan, c. p., vitadella, v., latief, m., & lasmana tarigan, i. (n.d.). analisis lc-ms/ms senyawa metabolit ekstrak etanol daun miana (coleus scutellarioides (l) benth) dan potensinya sebagai kandidat obat alzheimer. in

- pharmacy: *jurnal farmasi indonesia* (vol. 21).
<https://jurnalnasional.ump.ac.id/index.php/pharmacy>
- Sklenářová, r., svrčková, m., hodek, p., ulrichová, j., & franková, j. (2021). effect of the natural flavonoids myricetin and dihydromyricetin on the wound healing process in vitro. *journal of applied biomedicine*, 19(3), 149–158.
<https://doi.org/10.32725/jab.2021.017>
- Song, x., tan, l., wang, m., ren, c., guo, c., yang, b., ren, y., cao, z., li, y., & pei, j. (2021a). myricetin: a review of the most recent research. in *biomedicine and pharmacotherapy* (vol. 134). elsevier masson s.r.l.
<https://doi.org/10.1016/j.biopha.2020.111017>
- Song, x., tan, l., wang, m., ren, c., guo, c., yang, b., ren, y., cao, z., li, y., & pei, j. (2021b). myricetin: a review of the most recent research. in *biomedicine and pharmacotherapy* (vol. 134). elsevier masson s.r.l.
<https://doi.org/10.1016/j.biopha.2020.111017>
- Suharni, s., indarto, d., & cilmiaty, r. (2021, october 20). *comparison of ethanol and methanol extracts of bay leaves (syzygium polyanthum) in terms of vitamin c, iron and phytochemical levels*. <https://doi.org/10.4108/eai.17-7-2021.2312403>
- Tammam, b. m. h., habotta, o. a., el-khadragy, m., abdel moneim, a. e., & abdalla, m. s. (2023). therapeutic role of mesenchymal stem cells and platelet-rich plasma on skin burn healing and rejuvenation: a focus on scar regulation, oxido-inflammatory stress and apoptotic mechanisms. *heliyon*, 9(9).
<https://doi.org/10.1016/j.heliyon.2023.e19452>
- Tripathy, s. k. (2019). *design, development, and evaluation of sunflower oil based nanoemulsion of fluconazole* (vol. 16, issue 1).
www.ijppr.humanjournals.com
www.ijppr.humanjournals.com
- Wigati, d., setyaningrum, l., & koko pratoko, d. (n.d.). *eksakta : berkala ilmiah bidang mipa article the effect of extraction methods on the total phenols and total flavonoids content of jackfruit (artocarpus heterophyllus lamk) peels extract*. 24, 30–39. <https://doi.org/10.24036/eksakta/vol24-iss01/371>
- Wong, y. c., ahmad-mudzaqqir, m. y., & wan-nurdiyana, w. a. (2014). extraction of essential oil from cinnamon (*cinnamomum zeylanicum*). *oriental journal of chemistry*, 30(1), 37–47. <https://doi.org/10.13005/ojc/300105>
- Yang, f., teves, s. s., kemp, c. j., & henikoff, s. (2014). doxorubicin, dna torsion, and chromatin dynamics. in *biochimica et biophysica acta - reviews on cancer* (vol. 1845, issue 1, pp. 84–89). <https://doi.org/10.1016/j.bbcan.2013.12.002>
- yao, y., lin, g., xie, y., ma, p., li, g., meng, q., & wu, t. (2014). preformulation studies of myricetin: a natural antioxidant flavonoid. *pharmazie*, 69(1), 19–26.
<https://doi.org/10.1691/ph.2014.3076>
- Zhang, q. w., lin, l. g., & ye, w. c. (2018). techniques for extraction and isolation of natural products: a comprehensive review. in *chinese medicine (united kingdom)* (vol. 13, issue 1). biomed central ltd.
<https://doi.org/10.1186/s13020-018-0177-x>
- Zwieręłło, w., piorun, k., skórka-majewicz, m., maruszewska, a., antoniewski, j., & gutowska, i. (2023). burns: classification, pathophysiology, and treatment: a

review. in *international journal of molecular sciences* (vol. 24, issue 4). mdpi.
<https://doi.org/10.3390/ijms24043749>

LAMPIRAN