

DAFTAR PUSTAKA

- “Alginate in Wound Dressings” (2018) *Pharmaceutics*, 10(2), hal. 42. doi: 10.3390/pharmaceutics10020042.
- Andriani, M., Permana, I. D. G. M. dan Widarta, I. W. R. (2019) “Pengaruh Suhu dan Waktu Ekstraksi Daun Belimbing Wuluh Terhadap Aktivitas Antioksidan dengan Metode Ultrasonnic Assisted Extraction (UAE),” *Ilmu dan Teknologi Pangan*, 8(3), hal. 330–340.
- Aning, Y. dan Bambang, K. (2016) “Optimasi Volume Pelarut Dan Waktu Maserasi Pengambilan *Flavonoid* Daun Belimbing Wuluh,” *Jurnal Teknik Kimia*, 10(2), hal. 58–64.
- Arijani, E. dan Khoswanto, C. (2008) “The use of 90% Aloe vera freeze drying as the modulator of collagen density in extraction socket of incisivus *Cavia cobaya*,” *Dental Journal (Majalah Kedokteran Gigi)*, 41(2), hal. 74. doi: 10.20473/j.djmkkg.v41.i2.p74-76.
- Aryantini, D. dan Sari, F. (2017) “Uji Aktivitas Antibakteri Fraksi Aktif Terstandar *Flavonoid* Dari Daun Belimbing Wuluh (*Averrhoa Bilimbi L .*) Antibakteri Activity Assay Of Standardized Active Fraction From Belimbing Wuluh Leaf (*Averrhoa Bilimbi L .*),” hal. 143–150.
- BARBUT, S. dan FOEGEDING, E. A. (1993) “Ca²⁺-Induced Gelation of Pre-heated Whey Protein Isolate,” *Journal of Food Science*, 58(4), hal. 867–871. doi: 10.1111/j.1365-2621.1993.tb09379.x.
- Boateng, J. dan Catanzano, O. (2015) “Advanced Therapeutic Dressings for Effective Wound Healing - A Review,” *Journal of Pharmaceutical Sciences*. Elsevier Masson SAS, 104(11), hal. 3653–3680. doi: 10.1002/jps.24610.
- Botany, L. dan College, C. (2016) “A Study on Phytochemical Constituents of *Averrhoa Bilimbi* Linn . Fruits Chinju Merin Abraham,” (July), hal. 29–31.

- Chapman, V. J. *dkk.* (1980) "Seaweed as Animal Fodder, Manure and for Energy," *Seaweeds and their Uses*, hal. 30–61. doi: 10.1007/978-94-009-5806-7_2.
- Comotto, M. *dkk.* (2019) "Breathable hydrogel dressings containing natural antioxidants for management of skin disorders," *Journal of Biomaterials Applications*, 33(9), hal. 1265–1276. doi: 10.1177/0885328218816526.
- Cowan, M. M. (1999) "Plant products as antimicrobial agents," *Clinical Microbiology Reviews*, 12(4), hal. 564–582. doi: 10.1128/cmr.12.4.564.
- Cushnie, T. P. T. dan Lamb, A. J. (2011) "Recent advances in understanding the antibakteri properties of *flavonoids*," *International Journal of Antimicrobial Agents*, 38(2), hal. 99–107. doi: 10.1016/j.ijantimicag.2011.02.014.
- Flanagan, M. (2013) *Wound Healing and Skin Integrity*, Wiley-Blackwell. doi: 10.7748/phc2013.09.23.7.13.s13.
- George, B. dan Dhivya, R. (2019) "Phytochemical Screening and Antifungal Activity of Solvent Extracts of *Averrhoa bilimbi* Leaves against *Aspergillus niger* and *Rhizopus stolonifer*," 4(June), hal. 29–37.
- Gibbs, D. (2013) "SENYAWA *FLAVONOID* YANG BERSIFAT ANTIBAKTERI DARI AKWAY," 6(1), hal. 34–37.
- Gurtner, G. C. *dkk.* (2008) "Wound repair and regeneration," *Nature*, 453(7193), hal. 314–321. doi: 10.1038/nature07039.
- Gusnedi, R. (2013) "Analisis Nilai Absorbansi dalam Penentuan Kadar *Flavonoid* untuk Berbagai Jenis Daun Tanaman Obat," *Pillar of Physics*, 2, hal. 76–83.
- Hardian, R. *dkk.* (2016a) "Daya Antibakteri Ekstrak Daun Belimbing Wuluh (*Averrhoa bilimbi* linn) terhadap Bakteri *Enterococcus faecalis*," *Conservative Dentistry Journal*, 6(2), hal. 35–40.
- Hardian, R. *dkk.* (2016b) "Daya Antibakteri Ekstrak Daun Belimbing Wuluh (*Averrhoa bilimbi* linn) terhadap Bakteri *Enterococcus faecalis*," *Conservative*

Dentistry Journal, 6(2), hal. 35–40.

Hidayah, W. W., Kusriani, D. dan Fachriyah, E. (2016) “Jurnal Kimia Sains dan Aplikasi Isolasi, Identifikasi Senyawa Steroid dari Daun Getih-Getihan,” *Jurnal Kimia Sains dan Aplikasi*, 19(1), hal. 32–37.

Huang, J. (2006) “Sweating guarded hot plate test method,” *Polymer Testing*, 25(5), hal. 709–716. doi: 10.1016/j.polymertesting.2006.03.002.

Indarto (2015) “Uji kualitatif dan kuantitatif golongan senyawa organik Dari kulit dan kayu batang tumbuhan *Artocarpus dadah* Miq,” *Jurnal Ilmiah Pendidikan Fisika al-Biruni*, 4(1), hal. 75–84.

J, I. B. dan Sc, M. (tanpa tanggal) “Senyawa *Flavonoid* Di Dalam Tumbuhan.”

Kamilah Hayati, E., Fasyah, A. dan Sa’adah, L. (2010) “Fraksinasi Dan Identifikasi Senyawa Tanin Pada Daun Belimbing Wuluh (*Averrhoa bilimbi* L.),” *Jurnal Kimia*, 4(2), hal. 78–82.

Kamoun, E. A. *dkk.* (2015) “Poly (vinyl alcohol)-Alginate physically crosslinked hydrogel membranes for wound dressing applications: Characterization and bio-evaluation,” *Arabian Journal of Chemistry*. King Saud University, 8(1), hal. 38–47. doi: 10.1016/j.arabjc.2013.12.003.

Kartika, R. W. *dkk.* (2015) “Perawatan Luka Kronis dengan Modern Dressing,” *Perawatan Luka Kronis Dengan Modern Dressing*, 42(7), hal. 546–550.

Kementerian Kesehatan RI Badan Penelitian dan Pengembangan (2018) “Hasil Utama Riset Kesehatan Dasar,” *Kemnterian Kesehatan Republik Indonesia*, hal. 1–100. Tersedia pada: <http://www.depkes.go.id/resources/download/info-terkini/hasil-risikesdas-2018.pdf>.

Kirk dan Othmer (1993) “Vol 01 A to Alkaloids,” *Encyclopedia of Chemical Technology*. doi: 10.1002/0471238961.

Kurup, S. B. dan Mini, S. (2017) “*Averrhoa bilimbi* fruits attenuate hyperglycemia-

- mediated oxidative stress in streptozotocin-induced diabetic rats,” *Journal of Food and Drug Analysis*. Elsevier Ltd, 25(2), hal. 360–368. doi: 10.1016/j.jfda.2016.06.007.
- Lu, Z. *dkk.* (2017) “Enhanced antibakteri and wound healing activities of microporous chitosan-Ag/ZnO composite dressing,” *Carbohydrate Polymers*. Elsevier Ltd., 156, hal. 460–469. doi: 10.1016/j.carbpol.2016.09.051.
- Mailoa, M. N. *dkk.* (2014) “Antimicrobial Activities Of Tannins Extract From Guava Leaves (*Psidium Guajava* L) On Pathogens Microbial,” *International Journal of Scientific & Technology Research*, 3(1), hal. 236–241.
- Malangngi, L., Sangi, M. dan Paendong, J. (2012) “Penentuan Kandungan Tanin dan Uji Aktivitas Antioksidan Ekstrak Biji Buah Alpukat (*Persea americana* Mill.),” *Jurnal MIPA*, 1(1), hal. 5. doi: 10.35799/jm.1.1.2012.423.
- Mi, Q. *dkk.* (2007) “Agent-based model of inflammation and wound healing: Insights into diabetic foot ulcer pathology and the role of transforming growth factor- β 1,” *Wound Repair and Regeneration*, 15(5), hal. 671–682. doi: 10.1111/j.1524-475X.2007.00271.x.
- Mutia, T. *dkk.* (2014) “Webs Serat Nano Alginate / Polivinil Alkohol Untuk Media Penyampaian Obat Topikal Webs of Nano Alginates / Polyvinyl Alcohol Fibers for Topical,” *Jurnal Riset Industri*, 8(3), hal. 159–170.
- Mutia, T., Eriningsih, R. dan Safitri, R. (2011) “Membran Alginate Sebagai Pembalut Luka Primer Dan Media Penyampaian Obat Topikal Untuk Luka Yang Terinfeksi,” *Journal of Industrial Research (Jurnal Riset Industri)*, 5(2), hal. 161–174.
- Pankongadisak, P. *dkk.* (2015) “Development of silver nanoparticles-loaded calcium Alginate beads embedded in gelatin scaffolds for use as wound dressings,” *Polymer International*, 64(2), hal. 275–283. doi: 10.1002/pi.4787.
- Paul, W. dan Sharma, C. P. (2015) *Advances in Wound Healing Materials : Science and Skin Engineering*, *Advances in Wound Healing Materials : Science and Skin*

Engineering.

Prayogo, Rahardja, S. . dan Putri, W. . (2011) “Uji Potensi Sari Buah Belimbing Wuluh (*Averrhoa Bilimbi L.*) Dalam Menghambat Pertumbuhan Bakteri *Aeromonas salmonicida smithia* SECARA IN VITRO,” *Jurnal Ilmiah Perikanan dan Kelautan*, 3(2), hal. 165–168. Tersedia pada:

<http://jurnal.unimus.ac.id/index.php/psn12012010/article/download/2957/2879>.

Qin, Y. (2001) “Advanced wound dressings,” *Journal of the Textile Institute*, 92(2), hal. 127–138. doi: 10.1080/00405000108659563.

Qin, Y. (2015) *Applications of advanced technologies in the development of functional medical textile materials, Medical Textile Materials*. doi: 10.1016/b978-0-08-100618-4.00005-4.

Raguvaran, R. *dkk.* (2017) “Sodium Alginate and gum acacia hydrogels of ZnO nanoparticles show wound healing effect on fibroblast cells,” *International Journal of Biological Macromolecules*. Elsevier B.V., 96, hal. 185–191. doi: 10.1016/j.ijbiomac.2016.12.009.

Rasyid, a. (2005) “Beberapa Catatan tentang Alginate,” *Oseana*, XXX(1), hal. 9–14.

Rasyid, A. (2003) “Algae coklat (Phaeophyta) sebagai sumber Alginate,” *Oseana*, XXVIII(1), hal. 33–38.

Rezvanian, M., Mohd Amin, M. C. I. dan Ng, S. F. (2016) “Development and physicochemical characterization of Alginate composite film loaded with simvastatin as a potential wound dressing,” *Carbohydrate Polymers*. Elsevier Ltd., 137, hal. 295–304. doi: 10.1016/j.carbpol.2015.10.091.

Rinawati, N. D. (2010) “Daya Antibakteri Tumbuhan Majapahit (*Crescentia cujete L.*) Terhadap Bakteri *Vibrio alginolyticus*,” *Surabaya*, hal. 1–13. doi: 10.1017/S0959270900003142.

Safitri, R. *dkk.* (2011) “Penggunaan Membran Alginate,” 26(1).

- Sapara, T. U., Waworuntu, O. dan Juliatri (2016) “Efektivitas Antibakteri Ekstrak Daun Pacar Air (*Impatiens balsamina* L .) Terhadap Pertumbuhan *Porphyromonas gingivalis*,” *Jurnal Ilmiah Farmasi*, 5(4), hal. 10–17.
- Sirih, M. *dkk.* (tanpa tanggal) “Bakterial Terhadap Bakteri Gram Positif Dan Gram.”
- Sugiaman, V. K. (2011) “Peningkatan Penyembuhan Luka di Mukosa Oral Melalui Pemberian Aloe Vera (*Linn.*) Secara Topikal Topical,” *Maranatha Journal of Medicine and Health*, 11(1), hal. 70–79.
- Suluvoy, J. K. *dkk.* (2017) “Protective effect of *Averrhoa bilimbi* L. fruit extract on ulcerative colitis in wistar rats via regulation of inflammatory mediators and cytokines,” *Biomedicine and Pharmacotherapy*. Elsevier Masson SAS, 91, hal. 1113–1121. doi: 10.1016/j.biopha.2017.05.057.
- Ui, F. (2012) *Uji penghambat...*, Yudhi Kresnanugraha, FMIPA UI, 2012.
- Varaprasad, K. *dkk.* (2016) “Nano zinc oxide-sodium Alginate antibakteri cellulose fibres,” *Carbohydrate Polymers*. Elsevier Ltd., 135, hal. 349–355. doi: 10.1016/j.carbpol.2015.08.078.
- Wahyuningsih, H. P. dan Kusmiyati, Y. (2017) *Anatomi Fisiologi*.
- Williams, D. F. dan Williams, R. L. (2013) *Degradative Effects of the Biological Environment on Metals and Ceramics, Biomaterials Science: An Introduction to Materials: Third Edition*. doi: 10.1016/B978-0-08-087780-8.00062-0.
- Y. Handoko Singgih (2016) “Pemisahan Senyawa Steroid Fraksi Petroleum Eter (PE) Mikroalga *Chlorella* sp. Dengan Metode Kromatografi Kolom Pembuatan Fasa Diam Cara Basah dan Kering , 23(45), hal. 5–24.
- Zeng, Q. *dkk.* (2015) “Design of a thermosensitive bioglass/agarose-Alginate composite hydrogel for chronic wound healing,” *Journal of Materials Chemistry B*, 3(45), hal. 8856–8864. doi: 10.1039/c5tb01758k.
- Zhao, Y. *dkk.* (2005) “Superabsorbent hydrogels from poly(aspartic acid) with salt-

temperature- and pH-responsiveness properties,” *Polymer*, 46(14), hal. 5368–5376.
doi: 10.1016/j.polymer.2005.04.015.

Z. Ramadhani. (1991) “Senyawa Kimia Bahan Alam Terpenoid” 1(1), hal. 2–5. doi:
10.12681/eadd/1834.

