

## DAFTAR PUSTAKA

- Asaduzzaman, Rana, Sohel., Hasan, Raqibul., Hosain, Monir., Nittananda. Cytotoxic (Brine Shrimp Lethality Bioassay) and Antioxidant Investigation Of *Barringtonia Acutangula* (L). International Journal Of Pharma Science and Research. 2015;6:1179-1185.
- Badarinath A V., Mallikarjuna Rao K, Madhu Sudhana Chetty C, Ramkanth S, Rajan TVS, Gnanaprakash K. A review on In-vitro antioxidant methods: Comparisons, correlations and considerations. International Journal of PharmTech Research. 2010;2:1276–85.
- Bankova VS, CASTRO SL DE, C. M. Propolis: recent advances in chemistry and plant origin. Apidologie. 2000;31:3–15.
- Basim E, Basim H, Özcan M. Antibacterial activities of Turkish pollen and propolis extracts against plant bacterial pathogens. J Food Eng. 2006;77(4):992–6.
- Barbarić M, Mišković K, Bojić M, Lončar MB, Smolčić-Bubalo A, Debeljak Ž, et al. Chemical composition of the ethanolic propolis extracts and its effect on HeLa cells. J Ethnopharmacol. 2011;135(3):772–8.
- Blois MS. Antioxidant determinations by the use of a stable free radical. Nature. 1958;181:1199–1200.
- Boer, Y. Uji Aktivitas Antioksidan Ekstrak Kulit Buah Kandis (*Garcinia parvifolia* Miq). Jurnal Matematika dan IPA. 2000;(1):26- 33.
- Boligon AA, Feltrin AC, Gindri AL, Athayde ML. Essential oil composition, antioxidant and antimicrobial activities of *Guazuma ulmifolia* from Brazil. Med Aromat Plants. 2015; 2 (3): 1-4.

Buck DF. Antioksidant. J. Smith (eds). Food Additive User's Handbook. Galsgow-UK : Blakie Academic & Profesional. 1991.

Bueno-Silva B, Alencar SM, Koo H, Ikegaki M, Silva GVJ, Napimoga MH, et al. Anti-inflammatory and antimicrobial evaluation of neovestitol and vestitol isolated from brazilian red propolis. J Agric Food Chem. 2013;61(19):4546–50.

Carballo JL, Hernández-Inda ZL, Pérez P, García-Grávalos MD. A comparison between two brine shrimp assays to detect in vitro cytotoxicity in marine natural products. BMC Biotechnol. 2002;2.

Chaillou LL, Nazareno MA. Bioactivity of propolis from Santiago del Estero, Argentina, related to their chemical composition. LWT - Food Sci Technol. 2009;42(8):1422–7.

Crane E. The past and present importance of bee products to man : in Bee Products—Properties, Applications, and Apitherapy, A. Mizrahi and Y. Lensky, Eds. Plenum Press, New York, USA. 1997. 1–13 p.

Dehghani, H., Hashemi, M., Entezari, M., Mohsenifar, A. 2015. The Comparison of Anticancer Activity of Thymoquinone and Nanothymoquinone on Human Breast Adenocarcinoma. *Iran J. Pharm. Res.*, 14(2): 539–546.

Demestre M, Messerli SM, Celli N, Shahhossini M, Kluwe L, Mautner V. CAPE (Caffeic acid phenethyl ester)-based propolis extract (Bio 30) suppresses the growth of human neurofibromatosis (NF) tumor xenografts in mice. *Phyther Res.* 2009;23(2):226–30.

Puspitasari E, Ningsih Iy. Antioxidant Capacity Of Salak (*Salacca zalacca* (Gaertn.) Voss) Fruit Extract Using Dpph Radical Scavenging Method. *J Pharmacy.* 2016;13:1693-3591.

Fang, Y., Yang, S., Wu, G. 2002. Free radicals, antioxidants and nutrition. *Nutrition.* 18: 872–879.

Ghisalberti EL. Propolis: A Review. *Bee World*. 1979;60(2):59–84. Diakses tanggal 20 September 2017 dari <https://www.tandfonline.com/doi/full/10.1080/0005772X>.

Ginting,B., Barus,T., Marpaung,L.,,Simanjuntak,P. Uji Toksisitas Ekstrak Daun (*Myristica Fragrans* Houtt) Dengan Metode *Brine Shrimp Lethality Test* (BSLT). Prosiding Seminar Nasional Kimia 2014,Kalimantan Timur. 2014.

Giriwijoyo S, Komariyah L, Kartinah NT. Ilmu Kesehatan olahraga (Sports Medicine). In: Pendidikan Olahraga. 2007. 1–559 p.

Gülçin I, Mshvildadze V, Gepdiremen A, Elias R. The antioxidant activity of a triterpenoid glycoside isolated from the berries of *Hedera colchica*: 3-O-( $\beta$ -D-glucopyranosyl)-hederagenin. *Phyther Res*. 2006;20(2):130–4.

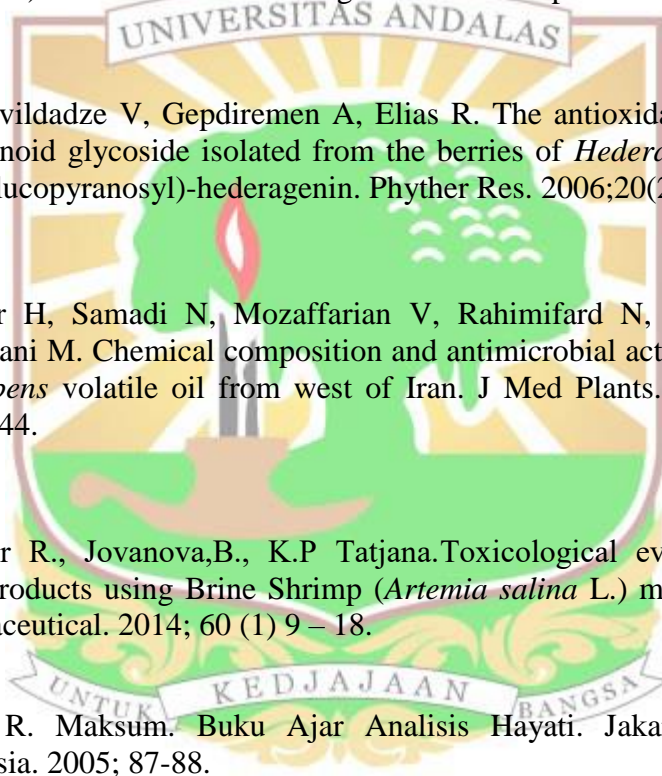
Hajimehdipoor H, Samadi N, Mozaffarian V, Rahimifard N, Oeibi S, Pirali Hamedani M. Chemical composition and antimicrobial activity of *Oliveria decumbens* volatile oil from west of Iran. *J Med Plants*. 2010;9(SUPPL 6.):39–44.

Hamidi,Mentor R., Jovanova,B., K.P Tatjana.Toxicological evaluation of the plant products using Brine Shrimp (*Artemia salina* L.) model. *Journal of pharmaceutical*. 2014; 60 (1) 9 – 18.

Harmita dan R. Maksum. *Buku Ajar Analisis Hayati*. Jakarta: Universitas Indonesia. 2005; 87-88.

Hegazi AG, Abd El Hady FK. Egyptian propolis: 3. Antioxidant, antimicrobial activities and chemical composition of propolis from reclaimed lands. *Zeitschrift fur Naturforsch - Sect C J Biosci*. 2002;57(3–4):395–402.

Halliwell, B., & Gutteridge JMC. *Free radicals in biology and medicine*. Oxford: Oxford University Press. 1999.



Huang S, Zhang C-P, Wang K, Li GQ, Hu F-L. Recent advances in the chemical composition of propolis. *Molecules*. 2014;19(12):19610–32. Diakses tanggal 20 September 2017 dari <http://www.mdpi.com/1420-3049/19/12/19610/htm>.

Kadifkova Panovska T, Kulevanova S, Stefova M. In vitro antioxidant activity of some *Teucrium* species (Lamiaceae). *Acta Pharm*. 2005;55:207–14.

Kedare SB, Singh RP. Genesis and development of DPPH method of antioxidant assay. *Journal of Food Science and Technology*. 2011;48:412–22.

Krell R. Value-added products from beekeeping. *Fao Agriculture Services Bulletin*. 1996. 16 p.

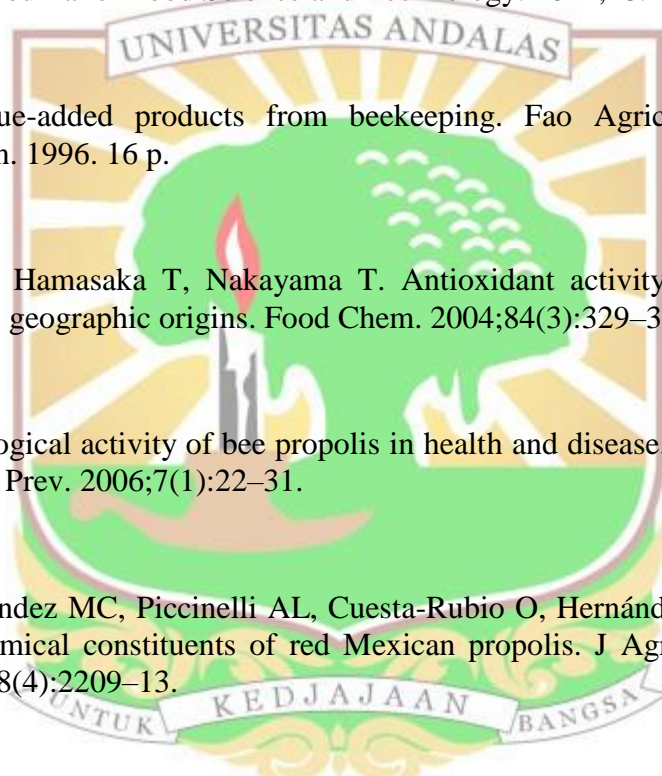
Kumazawa S, Hamasaka T, Nakayama T. Antioxidant activity of propolis of various geographic origins. *Food Chem*. 2004;84(3):329–39.

Lotfy M. Biological activity of bee propolis in health and disease. *Asian Pacific J Cancer Prev*. 2006;7(1):22–31.

Lotti C, Fernandez MC, Piccinelli AL, Cuesta-Rubio O, Hernández IM, Rastrelli L. Chemical constituents of red Mexican propolis. *J Agric Food Chem*. 2010;58(4):2209–13.

Manach C, Scalbert A, Morand C, Remesy C, Jimenez L. Polyphenols: Food sources and bioavailability. *The American journal of clinical nutrition*. 2004;79(5):727–47.

Marghitas, Liviu Al., Dezmiorean, Daniel. DPPH Method for Evaluation of Propolis Antioxidant Activity. *J. Animal Science and Biotechnology*. 2009;66 (1-2).



Meyer B, Ferrigni N, Putnam J, Jacobsen L, Nichols D, McLaughlin J. Brine Shrimp: A Convenient General Bioassay for Active Plant Constituents. *Planta Med.* 1982;45(5):31–4.

Nakajima Y, Tsuruma K, Shimazawa M, Mishima S, Hara H. Comparison of bee products based on assays of antioxidant capacities. *BMC Complement Altern Med.* 2009;9.

Nijveldt RJ, Van Nood E, Van Hoorn DEC, Boelens PG, Van Norren K, Van Leeuwen PAM. Flavonoids: A review of probable mechanisms of action and potential applications. *American Journal of Clinical Nutrition.* 2001;74:418–25.

Omene C, Kalac M, Wu J, Marchi E, Frenkel K, O'Connor OA. Propolis and its active component, Caffeic acid phenethyl ester (CAPE), modulate breast cancer therapeutic targets via an epigenetically mediated mechanism of action. *J Cancer Sci Ther.* 2013;5(10):334–42.

Park YK, Paredes-Guzman JF, Aguiar CL, Alencar SM, Fujiwara FY. Chemical constituents in *Baccharis dracunculifolia* as the main botanical origin of southeastern Brazilian propolis. *J Agric Food Chem.* 2004;52(5):1100–3.

Pastor C, Sánchez-González L, Cháfer M, Chiralt A, González-Martínez C. Physical and antifungal properties of hydroxypropylmethyl cellulose based films containing propolis as affected by moisture content. *Carbohydr Polym.* 2010;82(4):1174–83.

Rani M, Djajasaputra S, Ilmu D, Dan P, Peternakan T, Peternakan F. Potensi budidaya lebah. 2010;5.

Reynertson, K. A. Phytochemical Analysis of Bioactive Constituents from Edible *Myrtaceae* Fruit, Dissertation, The City University of New York, New York. 2007.

- Sabir A. Aktivitas antibakteri flavonoid propolis *Trigona* sp terhadap bakteri *Streptococcus mutans* (in vitro). *Maj Ked Gigi*. 2005;38(3):135–41.
- Salatino A, Teixeira ÉW, Negri G, Message D. Origin and chemical variation of Brazilian propolis. Vol. 2, Evidence-based Complementary and Alternative Medicine. 2005. 33–8 p.
- Sayuti, Kesuma dan Yenrina, Rina. *Antioksidan Alami dan Sinteti*. Padang: Andalas University Press. 2015.
- Senedese JM, Rodrigues AR, Furtado MA, Faustino VD, Berretta A a, Marchetti JM, et al. Assessment of the mutagenic activity of extracts of brazilian propolis in topical pharmaceutical formulations on Mammalian cells in vitro and in vivo. *Evid Based Complement Alternat Med*. 2011;407.
- Siregar H.CH, Fuah Asnath, Octaviany Yuke. *Propolis Madu Multikhasiat*. Jakarta (ID): Penebar Swadaya; 2011.
- Sun, C., Wu, Z., Wang, Z., Zhang, H. Effect of Ethanol/Water Solvents on Phenolic Profiles and Antioxidant Properties of Beijing Propolis Extracts. *Evid. Based Complement. Alternat. Med*. 2015;(9): 595393.
- Vaya, J., dan Aviram, M. Nutritional Antioxidants: Mechanisms of Action, Analyses of Activities and Medical Applications. *Curr. Med. Chem.-Imm, Endoc. and Metab. Agents*;1. 2001.
- Viuda-Martos M, Ruiz-Navajas Y, Fernández-López J, Pérez-Álvarez JA. Functional properties of honey, propolis, and royal jelly. Vol. 73, *Journal of Food Science*. 2008.
- Vermerris W, Nicholson R. Biosynthesis of phenolic compounds. In: *Phenolic Compound Biochemistry*. 2006. p. 63–149.
- Wagh VD. Propolis: A wonder bees product and its pharmacological potentials. Vol. 2013, *Advances in Pharmacological Sciences*. 2013.

WHO (World Health Organization). Cancer mortality and morbidity. Diakses tanggal 19 september 2017 dari [http://www.who.int/gho/ncd/mortality\\_morbidity/cancer\\_text/en/](http://www.who.int/gho/ncd/mortality_morbidity/cancer_text/en/).

Winarsi H. Antioksidan Alami dan Radikal Bebas. Yogyakarta: Kanisius. J Med Plants Res. 2007;79–80. Diakses tanggal 20 september 2017 dari <http://www.scopus.com/inward/record.url?eid=2-s2.0-79955397984&partnerID=40&md5=81790870c1cd6afb0f2552428d76cbac>.

Winarti, Sri. Makanan Fungsional. Yogyakarta: Graha Ilmu; 2010.

Wang ZY, Cheng SJ, Zhou ZC, Athar M, Khan WA, Bickers DR, et al. Antimutagenic activity of green tea polyphenols. Mutat Res Toxicol. 1989;223(3):273–85.

Zhang C, Shuai H, Wen-ting W, Shun P, Xiao-ge S, Ya-jing L, et al. Development of High-Performance Liquid Chromatographic for Quality and Authenticity Control of Chinese Propolis. J Food Sci. 2014;79(7).

