

## DAFTAR PUSTAKA

1. Riswan S, Roemantyo HS. Jamu as traditional medicine in Java, Indonesia. *South Pacific Study* 2002, 23(1): 1-10.
2. Farnsworth RN, Bunyapraphatsara N. *Garcinia mangostana* Linn. *Thai Medicinal Plants*. Prachachon Co., Ltd.: Bangkok 1992: 160-162.
3. Sato A, Fujiwara H, Oku H, Ishiguro K, Ohizumi Y. Alpha-mangostin induces  $\text{Ca}^{2+}$ -ATPase-dependent apoptosis via mitochondrial pathway in PC12 cells. *Journal of Pharmacological Sciences* 2004, 95(1): 33-40.
4. Obolskiy D, Pischel I, Siriwatana metanon N, Heinrich M. *Garcinia mangostana* L.: A phytochemical and pharmacological review. *Phytotherapy Research* 2009, 23(8): 1047-1065.
5. Pedraza-Chaverri J, Cárdenas-Rodríguez N, Orozco-Ibarra M, Pérez-Rojas JM. Medicinal properties of mangosteen (*Garcinia mangostana*). *Food and Chemical Toxicology* 2008, 46(10): 3227-3239.
6. Zulharmita Z, Prajuwita M, Boestari A. Penetapan kadar fenolat total dan uji aktivitas antioksidan ekstrak kulit segar buah manggis (*Garcinia mangostana* Linn.). *Jurnal Sains dan Teknologi Farmasi* 2010, 15(1): 42-51.
7. Regina A. Analisis kadar  $\alpha$ -mangostin dalam ekstrak dan fraksi-fraksi kulit buah manggis (*Garcinia mangostana* L.) secara kromatografi cair kinerja tinggi dan uji aktivitas sitotoksik pada sel kanker payudara T47D. 2015, UPT. Perpustakaan Unand.
8. Indah G. Pengembangan metode analisis  $\alpha$ -mangostin pada ekstrak diklorometana getah buah manggis (*Garcinia mangostana* L.) muda dengan kromatografi cair kinerja tinggi. 2015, Universitas Andalas.
9. Mevy T. Kajian toksisitas ekstrak air kulit buah manggis (*Garcinia mangostana* L.) terhadap mencit putih. 2015, UPT. Perpustakaan Unand.
10. Devina Y. Uji efek imunomodulator dari ekstrak etanol kulit buah manggis (*Garcinia mangostana* L.) dan  $\alpha$ -mangostin dengan metode *carbon clearance* dan perhitungan jumlah sel leukosit total. 2016, Universitas Andalas.
11. Hendriani N, Suharti N, Julizar. Perbedaan efek daya hambat jus kulit buah manggis dengan air rebusan kulit buah manggis sebagai antibakteri terhadap bakteri gram-positif (*Staphylococcus aureus* dan *Streptococcus pyogenes*) secara invitro. *Jurnal Kesehatan Andalas* 2016, 5(1).
12. Obat BP. Regulation of national agency of drug and food control number HK. 00.05. 4.2411 on provision of grouping and labelling of Indonesian natural products. 2004.
13. Efdi M. The potency of secondary metabolites from traditional medicine plants as anticancer agent. *Majalah Kedokteran Andalas* 2014, 37(2).
14. Tjitrosoepomo G. *Taksonomi tumbuhan obat-obatan*, 1994. Gadjah Mada University Press.
15. Hamid AA, Aiyelaagbe OO, Usman LA, Ameen OM, Lawal A. Antioxidants: Its medicinal and pharmacological applications. *African Journal of Pure Applied Chemistry*, 2010, 4(8): 142-151.
16. Prakash A, Rigelhof F, Miller E. Antioxidant activity. *Medallion laboratories analytical progress* 2001, 19(2): 1-4.

17. Sochor J, Ryvolova M, Krystofova O, Salas P, Hubalek J, Adam V, Trnkova L, Havel L, Beklova M, Zehnalek J, Provaznik I, Kizek R. Fully automated spectrometric protocols for determination of antioxidant activity: advantages and disadvantages. *Molecules* 2010, 15(12): 8618-8640.
18. Yoshikawa M, Harada E, Miki A, Tsukamoto K, Si Qian L, Yamahara J, Murakami N. Antioxidant constituents from the fruit hulls of mangosteen (*Garcinia mangostana* L.) originating in Vietnam. *Journal of the Pharmaceutical Society of Japan* 1994, 114(2): 129-133.
19. Williams P, Ongsakul M, Proudfoot J, Croft K, Beilin L. Mangostin inhibits the oxidative modification of human low density lipoprotein. *Free Radical Research* 1995, 23(2): 175-184.
20. Mahabusarakam W, Proudfoot J, Taylor W, Croft K. Inhibition of lipoprotein oxidation by prenylated xanthones derived from mangostin. *Free Radical Research* 2000, 33(5): 643-659.
21. Garcia VV, Magpantay TO, Escobin LD. Antioxidants potential of selected Philippine vegetables and fruits. *Philippine Agricultural Scientist* 2005, 88: 78-83.
22. Chomnawang MT, Surassmo S, Nukoolkarn VS, Gritsanapan W. Effects of *Garcinia mangostana* on inflammation caused by *Propionibacterium acnes*. *Fitoterapia* 2007, 78(1): 401-408.
23. Haruenkit R, Poovarodom S, Leontowicz H, Leontowicz M, Sajewicz M, Kowalska T, Delgado E, Rocha NE, Gallegos JA, Trakhtenberg S, Gorinstein S. Comparative study of health properties and nutritional value of durian, mangosteen, and snake fruit: experiments in vitro and in vivo. *Journal of Agricultural and Food Chemistry* 2007, 55(14): 5842-5849.
24. Multazami T. Uji aktivitas antibakteri ekstrak etanol daun asam jawa (*Tamarindus indica* L.) terhadap *Staphylococcus aureus* ATCC 6538 dan *Escherichia coli* ATCC 11229. 2013, Universitas Muhammadiyah Surakarta.
25. Atta-ur-Rahman, Choudhary MI, Thomsen, WJ. *Bioassay techniques for drug development* 2001: 20-22.
26. Patel JB, Cockerill FR, Alder J, Bradford PA, Eliopoulos GM, Hardy DJ, Hindler JA, Jenkins SG, Lewis JS, Miller LA, Powell M, Swenson JM. M100-S24: Performance standards for antimicrobial susceptibility testing; twenty-fourth informational supplement. *The Clinical and Laboratory Standards Institute (CLSI)*, 2014.
27. Bauer AW, Kirby WMM, Sherris JC, Turck M. Antibiotic susceptibility testing by a standardized single disk method. *American Journal of Clinical Pathology* 1966, 45(4): 493-496.
28. Barry AL, Coyle MB, Thornsberry C, Gerlach EH, Hawkinson RW. Methods of measuring zones of inhibition with the Bauer-Kirby disk susceptibility test. *Journal of Clinical Microbiology* 1979, 10(6): 885-889.
29. Sundaram BM, Gopalakrishnan C, Subramanian S, Shankaranarayanan D, Kameswaran L. Antimicrobial activities of *Garcinia mangostana*. *Planta Medica* 1983, 48(1): 59-60.
30. Iinuma M, Tosa H, Tanaka T, Asai F, Kobayashi Y, Shimano R, Miyauchi K. Antibacterial activity of xanthones from guttiferaeous plants against

- methicillin-resistant *Staphylococcus aureus*. *Journal of Pharmacy and Pharmacology* 1996, 48(8): 861-865.
31. Chanarat P, Chanarat N, Fujihara M, Nagumo T. Immunopharmacological activity of polysaccharide from the pericarp of mangosteen garcinia: phagocytic intracellular killing activities. *Journal of the Medical Association of Thailand* 1997, 80: S149-154.
32. Suksamrarn S, Suwannapoch N, Phakhodee W. Antimycobacterial activity of prenylated xanthones from the fruits of *Garcinia mangostana*. *Chemical and Pharmaceutical Bulletin* 2003, 51(7): 857-859.
33. Chomnawang MT, Sakagami SS, Nukoolkarn VS, Gritsanapan W. Antimicrobial effects of Thai medicinal plants against acne-inducing bacteria. *Journal of Ethnopharmacology* 2005, 101(1): 330-333.
34. Yanti R, Mustakim A, Arifin B, Efdi M, Itam A. Aktivitas brine shrimp lethality dari *Strobilanthes crispus* dan *Sonchus arvensis* sebagai tanaman obat. SEMIRATA 2015.
35. Dumitrescu M. *Artemia salina*. *Balneo-Research Journal* 2011, 2(4): 119-122.
36. Stockert JC, Blázquez-Castro A, Cañete M, Horobin RW, Villanueva Á. MTT assay for cell viability: Intracellular localization of the formazan product is in lipid droplets. *Acta Histochemica* 2012, 114(8): 785-796.
37. Meyer BN, Ferrigni NR, Putnam JE, Jacobsen LB, Nichols DE, McLaughlin JL. Brine shrimp: a convenient general bioassay for active plant constituents. *Planta Medica* 1982, 45(5): 31-34.
38. Matsumoto K, Akao Y, Kobayashi E. Induction of apoptosis by xanthones from mangosteen in human leukemia cell lines. *Journal of Natural Products* 2003, 66(8): 1124-1127.
39. Pongphasuk N, Khunkitti W, Chitcharoenrat M. Antiinflammatory and analgesic activities of the extract from *Garcinia mangostana* Linn. *Acta Hort* (ISHS), 2005, 680: 125-130.
40. Farnsworth NR. Biological and phytochemical screening of plants. *Journal of Pharmaceutical Sciences* 1966, 55(3): 225-276.
41. Brand-Williams W, Cuvelier ME, Berset C. Use of a free radical method to evaluate antioxidant activity. *Food Science and Technology* 1995, 28(1): 25-30.
42. Efdi M, Koketsu M, Watanabe K, Nurainas. Studi on antimicrobial properties of *Enicosanthum membranifolium* Sinclair and *Enicosanthum cupulare* (King) Airy-shaw. *Jurnal Riset Kimia* 2009, 3(1): 62-66.
43. Finney DJ. Probit analysis 3<sup>rd</sup> Edition 1971, Cambridge University Press.
44. sumber: [www.bacteriainphotos.com](http://www.bacteriainphotos.com)  
diakses tanggal 19 April 2016 pukul 13.05 WIB
45. sumber: [www.microbiologyinpictures.com](http://www.microbiologyinpictures.com)  
diakses tanggal 19 April 2016 pukul 13.18 WIB