

DAFTAR PUSTAKA

- Aboul-enein, A.M., Salama Z.A., Gaafar A.A., Aly H.F., bou-Elella F.A., and Ajmed H.A. 2016. Identification of Phenolic Compounds from Banana Peel (*Musa paradaisica L.*) as Antioxidant and Antimicrobial Agents. *Journal of Chemical and Pharmaceutical Research*, 8(4):46-55.
- Adhayanti, I., Abdullah, T., & Romantika, R. 2018. Uji Kandungan Total Polifenol dan Flavonoid Ekstrak Etil Asetat Kulit Pisang Raja (*Musa paradisiaca var. sapientum*). *Media Farmasi*, 14(1): 146-152.
- Ahmed, M.A.E., Zeinab A.S., Alaa A.G., Hanan F.A., Faten A.E., Habiba A.A. 2016. Identification of Phenolic Compounds from the Banana Peel (*Musa paradaisica L.*) as Antioxidant and Antimicrobial Agents. *J Chem Pharma Res* 8(4):46–55.
- Alfian, R. & Susanti, H. 2012, Penetapan Kadar Fenolik Total Ekstrak Metanol Kelopak Bunga Rosella Merah (*Hibiscus sabdariffa* Linn) dengan Variasi Tempat Tumbuh Secara Spektrofotometri. *Jurnal Ilmiah Kefarmasian*, vol. 2(1): 73-80.
- Amri, F. S. A., & Hossain, M. A. 2018. Comparison of Total Phenols, Flavonoids and Antioxidant Potential of Local and Imported Ripe Bananas. *Egyptian Journal of Basic and Applied Sciences*, 5(4), 245–251.
- Arief, S. 2012. Radikal Bebas. Jurnal Pediatri; Unair. 1:1–9.
- Badarinath, A.V., Mallikarjuna K.R.A., Chetty M.S.C., Ramkanth S., Rajan T.V.S, and K. Gnanaprakash. 2010. A Review on In-vitro Antioxidant Methods: Comparisons, Correlations and Considerations. *International Journal of PharmTech Research*, 2(2): 1276-1285.
- Bakti, A.A., Triyasmmono L., & Rizki M.I. 2017. Penentuan Kadar Flavonoid Total dan Uji Antioksidan Ekstrak Etanol Daun Kasturi (*Mangifera casturi Kosterm.*) dengan Metode DPPH. *Jurnal Pharmascience*, 4(1): 102-108.
- Blainski, A., G. C. Lopes, and J. C. P. de Mello. 2013. Application and Analysis of the Folin Ciocalteu Method for the Determination of the Total Phenolic Content from *Limonium Brasiliense L.* molecules. 18, pp. 6852–6864.
- Cahyadi,W. 2006. Bahan Tambahan Pangan. Jakarta: Bumi Aksara.

- Cahyono, B. 2009. Pisang Usaha Tani dan Penanganan Pasca Panen. Yogyakarta :Kanisius.
- China, R., Dutta, S., Sen, S., Chakrabarti, R., Bhowmik, D., Ghosh, S., & Dhar, P. 2011. In Vitro Antioxidant Activity of Different Cultivars of Banana Flower (*Musa paradicicus L.*) Extracts Available in India. *Journal of food science*, 76(9), 1292–1299.
- Daneshfar, A., Ghaziaskar, H. S., & Homayoun, N. 2008. Solubility of Gallic Acid in Methanol, Ethanol, Water, and Ethyl Acetate. *Journal of Chemical & Engineering Data*. 53(3): 776-778.
- Deborah N. dan Gemayangsura. 2015. Khasiat Kulit Pisang Kepok (*Musa acuminata*) sebagai Agen Preventif Ulkus Gaster. Majority.Vol. 4(8): 17-22.
- Dehpour, A.A., Ebrahimzadeh, M.A., Fazel, N.S. & Mohamad, N.S. 2009. Antioxidant Activity of Methanol Extract of Ferula Assafoetida and its Essential Oil Composition. *Grasas Aceites*. vol. 60, no. 4, pp. 405-412.
- Departemen Kesehatan Republik Indonesia. 1985. *Cara Pembuatan Simplisia*. Jakarta: Departemen Kesehatan RI.
- Departemen Kesehatan Republik Indonesia. 1995. *Farmakope Indonesia*. Edisi IV. Jakarta: Departemen Kesehatan RI.
- Departemen Kesehatan Republik Indonesia. 2008. *Farmakope Herbal Indonesia*. Edisi I. Jakarta: Departemen Kesehatan RI.
- Depkes RI. 1989. *Materia Medika Indonesia*. Jilid V. Jakarta: Departemen Kesehatan RI.
- Ferdinan, A. and Prasetya, A. 2018. Uji Aktivitas Antioksidan Dari Ekstrak Jantung Pisang Kepok (*Musa Paradisiaca L.*) Pontianak. *Jurnal Ilmiah Ibnu Sina*. 3(1): 88 - 96.
- Fidrianny, I., Rizki, K. and Insanu, M. 2014. In Vitro Antioxidant Activities from Various Extracts of Banana Peels Using ABTS, DPPH Assays and Correlation with Phenolic, Flavonoid, Carotenoid Content. *International Journal of Pharmacy and Pharmaceutical Science*, 6(8): 299-303.
- Fithriani, D., Amini, S., Melanie, S., Susilowati, R. 2015. Uji Fitokimia, Kandungan Total Fenol dan Aktivitas Antioksidan Mikroalga *Spirulina sp.*,

- Chlorella sp.*, dan *Nannochloropsis sp.* *JPB Kelautan dan Perikanan*, 10(2): 101-109.
- Gazi, M.R., Kanda, K., Yasuda, M. & Kato, F. 2004. Optimisation of Cultural Conditions and Some Properties of Radical Scavenging Substances From *Sporobolomyces Salmonicolor*. *J. Biol. Sci.* 7, pp. 1365–1370.
- Handayani, V., Ahmad, A., & Sudir, M. 2014. Uji Aktivitas Antioksidan Ekstrak Metanol Bunga dan Daun Patikala (*Etlingera elatior* (Jack) R.M.SM) Menggunakan Metode DPPH. *Pharm Sci Res*, 2407-2354.
- Harborne, J.B., 1987. Metode Fitokimia, Penuntun Cara Modern Menganalisa Tumbuhan, Terbit Kedua. Bandung: ITB.
- Hasanah, M., Maharani B., & Munarsih E. 2017. Daya Antioksidan Ekstrak dan Fraksi Daun Kopi Robusta (*Coffea robusta*) terhadap Pereaksi DPPH (2,2-Difenil-1-Pikrilhidrazil). *IJPST*, 4(2): 42-49.
- Hidayati, D.N., Ibrahim Arifin. Yuni Antika. Amalina Firdaus. Nur Kussamawari Ardian. 2017. Pengujian Aktivitas Antioksidan Ekstrak dan Fraksi Jantung Pisang Mas (*Musa acuminata colla*) Menggunakan Metode DPPH. *PHARMACY*, 14(1): 75-85.
- Irtanto, Okky., Alex Pangkahila., & IGM Aman. 2017. Pemberian Ekstrak *Floret Pisang Raja* (*Musa x paradisiaca*) Mencegah Penurunan Kadar Superoksid Dismutase (SOD) pada Hati Mencit (*Mus musculus*) BALB/c dengan Aktivitas Fisik Berlebih. *Jurnal Biomedik*. 9(3): 166-171.
- Jami'ah S.R., Ifaya M., Pumarani J., & Nurhikma E. 2018. Uji Aktivitas Antioksidan Ekstrak Metanol Kulit Pisang Raja (*Musa Paradisiaca sapientum*) dengan Metode DPPH (2,2-Difenil-1-Pikrilhidrazil). *Jurnal Mandala Pharmacon Indonesia*, 4(1): 33-38.
- Joseph, J., Paul, D., Kavitha, M. P., Dineshkumar, B., Menon, J. S., Bhat, A. R., & Krishnakumar, K. 2014. Preliminary phytochemical screening and in vitro antioxidant activity of Banana flower (*Musa paradisiaca AAB Nendran variety*). *Journal of Pharmacy Research*, 8(2), 144-147.
- Khadijah, Jayali, AM, Umar, S, & Sasmita, I, 2017, Penentuan Fenolik dan Aktivitas Antioksidan Ekstrak Etanolik Daun Samama (*Anthocephalus*

- macrophyllus*) asal ternate, maluku utara, *Jurnal Kimia Mulawarman*, vol. 15(1), pp.11-18.
- Khasanah, A. N., & Marsusi, M. 2014. Karakterisasi 20 Kultivar Pisang Buah Domestik (*Musa paradisiaca*) dari Banyuwangi, Jawa Timur. *EL-VIVO*. 2(1): 20-27.
- Kim, D.K., K.W. Lee., H.J. Lee., C.Y Lee. 2002. Vitamin C Equivalent Antioxidant Capacity (VCEAC) of Phenolic Phytochemicals. *J. Agric. Food Chem.* 50(13): 3713-3717.
- Lestari, D. M., Mahmudati, N., Sukarsono, Nurwidodo dan Husamah. 2018. Aktivitas Antioksidan Ekstrak Fenol Daun Gayam (*Inocarpus fagiferus Fosb*). *Biosfera* 35(1): 37-43.
- Lewis, D. L., Field, W. D. and Shaw, G. P. 1999. A Natural Flavonoid Present in Unripe Plantain Banana Pulp (*Musa sapientum L. var. paradisiaca*) Protects The Gastric Mucosa From Aspirin-Induced Erosions. *Journal of Ethnopharmacology*. 65: 283 – 288.
- Loganayaki, N., Rajendrakumaran, D. and Manian, S. 2010. Antioxidant Capacity and Phenolic Content of Different Solvent Extracts from Banana (*Musa paradisiaca*) and Mustai (*Rivea hypocrateriformis*). *Food and Science Biotechnology*. 19(5): 1251 – 1258.
- Luximon-Ramma, A., Bahorun, T. and Crozier, A. 2003. Antioxidant Actions and Phenolic and Vitamin C Contents of Common Mauritian Exotic Fruits. *Journal of the Science of Food and Agriculture*. 83: 496 – 502
- Maesaroh, Kiki & Kurnia, Dikdik & Anshori, Jamaludin. 2018. Perbandingan Metode Uji Aktivitas Antioksidan DPPH, FRAP dan FIC Terhadap Asam Askorbat, Asam Galat dan Kuersetin. *Chimica et Natura Acta* Vol. 6 No. 2, Agustus 2018: 93-100
- Mahmood, A., Ngah, N., & Omar, M. N. 2011. Phytochemicals constituent and antioxidant activities in *Musa x Paradisiaca flower*. *European journal of scientific research*, 66 (22), 311-318.
- Mandal, S., Yadav, S., Yadav, S. & Nema, R.K. 2009. Antioxidants: a review. *Journal of Chemical and Pharmaceutical Research*.

- Marinova, D., Ribarova F. and Atanassova M. 2005. Total Phenolics and Total Flavonoids in Bulgarian Fruits and Vegetables. *Journal of Chemical Technology and Biotechnology*, 40(3): 255 – 260.
- Martiningsih, N.W., Widana G.B.A., & Kristiyanti P.L.P. 2016. Skrining Fitokimia dan Uji Aktivitas Antioksidan Ekstrak Etanol Daun Matoa (*Pometia pinnata*) dengan Metode DPPH. *Prosiding Seminar Nasional MIPA 2016*. 332-338.
- Materska M. and Perucka I. 2005. Antioxidant Activity of The Main Phenolic Compounds Isolated From Hot Pepper Fruits (*Capsicum annuum L.*). *Journal of Agricultural Food Chemistry*. 53:1730 – 1758
- Miller, J.N., and Miller, J.C. 2010. Statistics and Chemometrics for Analytical Chemistry Sixth edition. England: Pearson Education Limited.
- Molyneux, P. 2004. The Use Of The Stable Free Radical *Diphenylpicrylhydrazyl* (DPPH) For Estimating Antioxidant Activity. *Songklanakarin J. Sci. Technol*, 26(2).
- Mongkolsilp, S., Pongbupakit, I., Sae-lee, N., Sitthithaworn, W. 2004. Radical Scavenging Activity And Total Phenolic Content Of Medical Plants Used In Primary Health Care. *Jurnal of Pharmacy and Science*. 9(1): 32-35.
- Muchtadi, Deddy. 2013. Antioksidan dan Kiat Sehat di Usia Produktif. Bandung: Alfabeta.
- Naczk, M. and Shahidi F. 2006. Phenolics in Cereals, Fruits, and Vegetables: Occurrence, Extraction, and Analysis. *Journal of Pharmaceutical and Biomedical Analysis*, 41: 1523 – 1542.
- Naczk, M., and Shahidi, F. 2004. Extraction and Analysis of Phenolic in Food. *Journal of Chromatography Analysis*. 1054: 95-111.
- Nisha, P., and Mini, S. 2014. In Vitro Antioxidant and Antiglycation Properties of Methanol Extract and its Different Solvent Fractions of *Musa paradisiaca L.* (Cv. Nendran) Inflorescence. *International Journal of Food Properties*, 17: 399–409.
- Oka Antari, N., Wartini, N., & Mulyani, S. 2015. Pengaruh Ukuran Partikel dan Lama Ekstraksi Terhadap Karakteristik Ekstrak Warna Alami Buah Pandan

- (*Pandanus tectorius*). *Jurnal Rekayasa dan Manajemen Agroindustri*, 3(4): 30-40.
- Pandey, N., & Barve D. 2011. Antioxidant Activity of Ethanolic Extract of *Annona squamosa Linn* Bark. *International Journal of Research in Pharmaceutical and Biomedical Sciences*, 2(4): 1692-1697.
- Pereira, G.A., Arruda, H.S., & Pastore, G.M. 2018. Modification and Validation of Folin-Ciocalteu Assay For Faster and Safer Analysis of Total Phenolic Content in Food Samples. *Brazilian Journal of Food Research, Campo Mourão*, 9(1). p. 125-140.
- Permana, D.N., Hj. Lajis., Faridah Abas, A. Ghafar othman., Rohaya Ahmad., Mariko Kitajama., Hiromitsu Takayama., Nario Aimi., Cl. 2003. Antioksidative Constituents Of Hedotis Diffusa Wild. *Natural Product Sciences*. 9(1), 7-9.
- Prakash, A., 2001. *Antioxidant Activity*. Medallion Laboratories Analytical Progress. vol. 19 No.2.
- Probojati, R. T. 2018. Diversitas Genetik Pisang Raja (*Musa x paradisiaca L.*) di Pulau Jawa Berdasarkan Marka RAPD (*Random Amplified Polymorphic DNA*). *Thesis*. Universitas Islam Negeri Maulana Malik Ibrahim Malang.
- Putra, B.A., Bogoriani, N.W., Diantariani, N.P., & Sumadewi, N.L. 2014. Ekstraksi Zat Warna Alam Dari Bonggol Tanaman Pisang (*Musa paradisiaca L.*) Dengan Metode Maserasi, Refluks, dan Sokletasi. *Jurnal Kimia*, 8(1): 113-119.
- Rao, U.S.M, Abdurrazak, M., Mohd, K.S., 2016. Phytochemical Screening, Total Flavonoid and Phenolic Content Assays of Various Solvent Extracts of Tepal of *Musa paradisiaca*. *Malaysian Journal of Analytical Sciences*, 20(5), 1181 – 1190.
- Reza, M.S.A., Mahnaz, K., Mannan, H., Maryam J. and Abbas H. 2010. Comparison of Antioxidant Activity and Total Phenol Contents of Some Date Seed Varieties From Iran. *Iranian Journal of Pharmaceutical Research*. 9(2): 141 – 146.
- Rifai, G., Widarta, I.R., dan Nocianitri, K.A. 2018. Pengaruh Jenis Pelarut dan Rasio Bahan dengan Pelarut Terhadap Kandungan Senyawa Fenolik dan

- Aktivitas Antioksidan Ekstrak Biji Alpukat (*Persea americana Mill.*). *Jurnal ITEPA*, 7(2): 22-32.
- Rizkayanti, R., Diah, A., & Jura, M. 2017. Uji Aktivitas Antioksidan Ekstrak Air dan Ekstrak Etanol Daun Kelor (*Moringa Oleifera LAM*). *Jurnal Akademika Kimia*, 6(2), 125-131.
- Rollando, R. 2018. Penelusuran Potensi Aktifitas Antioksidan Jantung Pisang Kepok (*Musa paradisiaca L.*). *e-Publikasi Fakultas Farmasi*, 15(01), 37-44.
- Rumoroy, J., Sudewi, S., & Siampa, J. 2019. Analisis Total Fenolik Daun Gedi Hijau (*Abelmoschus Manihot L.*) dengan Menggunakan Spektroskopi FTIR dan Kemometrik. *Pharmacon*, 8(3), 758-766.
- Sahu, Rajeshwari dan Jyoti Saxena. 2013. Screening of Total Phenolic and Flavonoid Content in Conventional and Non-Conventional Species of Curcuma. *Journal of Pharmacognosy and Phytochemistry*. 2(1): 176-179.
- Salim, S., Saputri, F., Saptarini, N., & Levita, J. 2020. Kelebihan Dan Keterbatasan Perekusi Folin-Ciocalteu Dalam Penentuan Kadar Fenol Total Pada Tanaman. *Farmaka*, 18(1), 46-57.
- Sánchez-Rangel, J. C., J. Benavides, J. B. Heredia, L. Cisneros-Zevallos, dan D.A. Jacobo-Velázquez. 2013. The Folin–Ciocalteu Assay Revisited: Improvement of its Specificity For Total Phenolic Content Determination. *Analytical Methods*. 5: 5990–5999.
- Saptari, H.T., Triastinurmiatiningsih., Lohita, S.B., Sayyidah, I.N. 2019. Kadar Fenolik Dan Aktivitas Antioksidan Ekstrak Etanol Rumput Laut Coklat (*Padina australis*). *Fitofarmaka*, 9(1), 1-8.
- Sastrawan, I.N., Sangi M., & Kamu V. 2013. Skrining Fitokimia dan Uji Aktivitas Antioksidan Ekstrak Biji Adas (*Foeniculum vulgare*) Menggunakan Metode DPPH. *Jurnal Ilmiah Sains*, 13(2): 110-115.
- Shaida Fariza Sulaiman., Nor Adlin Md., Yusoff Ibrahim M., Eldeen., Eng Meng Seow., Azliana Abu Bakar Sajak., Supriatno., Kheng Leong Ooi. 2011. Correlation Between Total Phenolic and Mineral Contents with Antioxidant Activity of Eight Malaysian Bananas (*musa sp.*). *Journal of Food Composition and Analysis*. 24(1): 1-10.

- Sheng, Z., Ma, W., Gao, J., Bi, Y., Zhang, W., & Dou, H. 2011. Antioxidant Properties of Banana Flower of Two Cultivars In China Using 2,2-Diphenyl-1-Picrylhydrazyl (DPPH), Reducing Power, 2,2'-Azinobis-(3-Ethylbenzthiazoline-6-Sulphonate (ABTS) and Inhibition of Lipid Peroxidation Assays. *African Journal of Biotechnology*, 10, 4470-4477.
- Singleton, V.L., and Rossi, J.A., Jr. 1965. Colorimetry of Total Phenolics with Phosphomolybdic-Phosphotungstic Acid Reagents. *Am. J. Enol. Vitic*, 16: 144-158.
- Sirait, R. C., Tjahjono, K., & Setiawati, A. N. 2016. *Pengaruh Pemberian Ekstrak Jintan Hitam (Nigella sativa) Terhadap Kadar MDA Serum Tikus Sprague Dawley Setelah Diberikan Paparan Asap Rokok* (Doctoral dissertation, Diponegoro University).
- Sulaiman, C. T., Sadashiva, C. T., George, S., Goplakrishnan, V. K. and Balachandran, I. 2013. Chromatographic Studies and *in vitro* Screening For Acetyl Cholinesterase Inhibition and Antioxidant Activity of Three Acacia Species From South India. *Analytical Chemistry Letters*, 3(2). 111 – 118.
- Sunarni, T. 2005. Aktivitas Antioksidan Penangkap Radikal Bebas Beberapa Kecambah Dari Biji Tanaman Familia Papilionaceae. *Jurnal Farmasi Indonesia*. 2 (2). 53-61.
- Susanty & Bachmid, F. 2016. Perbandingan Metode Ekstraksi Maserasi dan Refluks Terhadap Kadar Fenolik dari Ekstrak Tongkol Jagung (*Zea mays L.*). Konversi, 5(2), 87-93.
- Susilowati & Suharyanto. 2017. Potensi Antioksidan dan Kadar Fenolik Total Fraksi Air dan Fraksi Etil Asetat Daun Kelor (*Moringa oleifera Lamk.*), *Jurnal Permata Indonesia*, 8(2), pp. 26-38.
- Suyanti Satuhu, B.Sc. & Ir. Ahmad Supriyadi, 2008. *Pisang Budidaya, Pengolahan dan prospek Pasar*. Jakarta :Penebar swadaya.
- Syamsuni, H A., 2006. *Ilmu Resep*. Jakarta: EGC.
- Tjitosoepomo, G., 2000. *Morfologi Tumbuhan*. Yogyakarta: *Gadjah Mada University Press*

- Velioglu YS, Mazza G, Gao L, Oomah BD. 1998. Antioxidant Activity and Total Phenolics in Selected Fruits, Vegetables, and Grain Products. *J. Agric. Food Chem.* 46(10): 4113-4117.
- Wahdaningsih, S., Setyowati, E.P., & Wahyuono S. 2011. Aktivitas Penangkap Radikal Bebas dari Batang Pakis (*Alsophila Glauca J. Sm.*). *Majalah Obat Tradisional*, 16(3): 156–160.
- Winarsi, Heri. 2007. *Antioksidan Alami dan Radikal Bebas*. Yogyakarta: Kanisius.
- Wungkana, I., Suryanto, E., & Momuat, L. 2013. Aktivitas Antioksidan Dan Tabir Surya Fraksi Fenolik Dari Limbah Tongkol Jagung (*Zea mays L.*). PHARMACON Jurnal Ilmiah Farmasi – UNSRAT, 2(4), 149–155.
- Yamaguchi T, Takamura H, Matoba T, Terao J. 1998. HPLC Method For Evaluation of The Free Radical-Scavenging Activity of Foods By Using DPPH. *Biosci. Biotechnol. Biochem.* 62(6): 1201-1204.
- Yuhernita dan Juniarti. 2011. Analisa Senyawa Metabolit Sekunder dari Ekstrak Metanol Daun Surian yang Berpotensi sebagai Antioksidan. *Makara, Sains.* 15(1): 48-52.
- Yuniwarti, E.Y.W., Saraswati T.R., & Kusdiyantini E. 2018. Aktivitas Antioksidan Berbagai Minyak Edible Menggunakan Metode DPPH. *Buletin Anatomi dan Fisiologi*, 3 (1): 85-88.