

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Nilai aktivitas antioksidan yang dinyatakan dengan IC₅₀ pada buah mangga, jus mangga hasil olahan sendiri, dan jus mangga merek A berturut-turut adalah 27,48 mg/mL, 67,59 mg/mL, dan 143,82 mg/mL.
2. Sampel jus mangga merek A memiliki aktivitas antioksidan yang lebih kecil dibandingkan dengan jus mangga hasil olahan sendiri dan buah mangga segar.

5.2 Saran

Dilakukan penelitian lebih lanjut mengenai pengaruh *whipped cream* terhadap aktivitas antioksidan jus mangga.

DAFTAR PUSTAKA

- Ahmed, M., Pickova, J., Ahmad, T., Liaquat, M., Farid, A. and Jahangir, M. 2016, Oxidation of Lipids in Foods, *Sarhad Journal of Agriculture*, **32(3)**: 230-238.
- Amorati, R. and Valgimigli, L. 2015, Advantages and limitations of common testing methods for antioxidants, *Free Radical Research*, **49(5)**: 633–649.
- British Soft Drinks Association, 2016, *Fruit Juice – Technical Guidance 1st Edition*, London: Bedford Row.
- Caballero, B., Finglas, P.M. and Toldra, F. 2016, *Encyclopedia of Food and Health*, Academic Press, Oxford.
- Capaldo, L. and Ravelli, D. 2017, Hydrogen Atom Transfer (HAT): A Versatile Strategy for Substrate Activation in Photocatalyzed Organic Synthesis, *Eur. J. Org. Chem.*, **15(1)**: 2056–2071.
- Caswell, H., 2009, The Role of Fruit Juice in the Diet: An Overview, *British Nutrition Foundation*, **34**: 273–288.
- Darwish, A.Z., Bayomy, H. and Rozan, M. 2016, Effect of Baked, Whipped, and Fermentation on Antioxidant Activity in Red Raspberries, *Journal of Food & Processing & Technology*, **7**: 1-5.
- Dian, N. 2017. Hasil Survey Sampel Jus Mangga, <https://gaya.tempo.co/read/909933/king-mango-thai-habiskan-1-ton-mangga-sehari/full&view=ok>. Diakses pada 8 Januari 2019.
- World Health Organization, 2004, *Fruit and Vegetables for Health*, Kobe: Food and Agriculture Organization.
- Gupta, D. 2014, Methods for Determination of Antioxidant Capacity: A Review, *International Journal of Pharmaceutical Sciences and Research*, **6(2)**: 546-566.
- Islam, M.A., Morshed, S., Saha, S., Quader, F.B. and Alam, M.K. 2015, Evaluation of Nutritive Value of Mango Juices Found in Bangladeshi Markets, *J. Environ. Sci. & Natural Resources*, **8(1)**: 95-98.
- Jackie, K.S.L. dan Dika, P.D. 2017, Uji Aktivitas Antioksidan Vitamin A, C, E dengan metode DPPH, *Farmaka Suplemen*, **15(1)**: 53-62.
- Kementerian Kesehatan Republik Indonesia, 2018, *Riset Kesehatan Dasar (Risksesdas 2018)*, Jakarta: Badan Penelitian dan Pengembangan Kesehatan.

- Kurniawan, I.W. 2016, Klarifikasi Jus dengan Teknologi Membran, Bandung: Institut Teknologi Bandung.
- Mahdavi, R., Nikniaz, Z., Rafraf, M. and Jouyban, A. 2010, Determination and Comparison of Total Polyphenol and Vitamin C Contents of Natural Fresh and Commercial Fruit Juices, *Pakistan Journal of Nutrition*, **9(10)**: 968-972.
- Marianna, L., Sonia, E., Giuseppe, C., Michela, G. and Antonella, D. 2017, Multifaceted Health Benefits of Mangifera indica L. (Mango): The Inestimable Value of Orchards Recently Planted in Sicilian Rural Areas, *Journal of Molecular Diversity Preservation International*, **9(1)**: 1-14.
- Marx, F., Maia, J.G.S. and Rodrigues, R.B. 2014, *The Total Oxidant Scavenging Capacity (TOSC) Assay and Its Application to European and Under-Utilized Brazilian Fruits*, Germany: Institute of Nutrition and Food Sciences.
- Molyneux, P. 2004, The Use of the Stable Free Radical Diphenylpicryl – hidrazyl (DPPH) for Estimating Antioxidant Activity, *J. Sci. Technol*, **26(2)**: 211 – 219.
- Moza. 2017. Hasil Survey Sampel Jus Mangga, <https://mozaic.mataharimall.com/male/5-jus-mangga-kekinian-yang-paling-banyak-diburu-di-jakarta/>. Diakses pada 8 Januari 2019.
- Palupi, I.R., Naomi, N.D. dan Susilo, J. 2017, Penggunaan Label Gizi dan Konsumsi Makanan Kemasan Pada Anggota Persatuan Diabetisi Indonesia, *Jurnal Kesehatan Masyarakat*, **11(1)**: 1-8.
- Rahadiantoro, A. 2014, Keanekaragaman Jenis dan Potensi Mangga (Mangifera Sp., Anacardiaceae) Koleksi Kebun Raya Purwodadi, *Proceeding Seminar Nasional Biodiversitas V*, Surabaya.
- Rai, I.N., Wijana, G. dan Semarajaya, C.G.A. 2008, Identifikasi Variabilitas Genetik Wani Bali (Mangifera caesia Jack.) dengan Analisis Penanda RAPD, *J.Hort.*, **18(2)**: 125-134.
- Samson, J.A. 1992, *Tropical Fruits 2nd Edition (Tropical Agriculture Series)*. Longman Scientific and Technical, New York.
- Santos, A.B., Bottoni, S.S., Silva, S.D., Brilhante, J.F. and Moreira, E.M. 2017, Study of the Consumers of Ready-to-Drink Juices and Fruit Nectars, *Food Science and Technology*, **38(3)**: 504-512.
- Sayuti, K. dan Yenrina, R. 2015, *Antioksidan Alami dan Sintetik*. Andalas University Press, Padang.

Sivakumar, D., Jiang, Y. and Yahia, E.M. 2010, Maintaining Mango (*Mangifera indica L.*) Fruit Quality During the Export Chain, *Food Research International*, **44**: 1254-1263.

The World Health Report, 2002, *Reducing Risks, Promoting Healthy Life*, Paris: World Health Organization.

Yadav, A., Kumari, R., Yadav, A., Mishra, J.P., Srivatva, S. and Prabha, S. 2016, Antioxidants and Its Function in Human Body, *Research in Environment and Life Sciences*, **9(11)**: 1328-1331.