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DAFTAR PUSTAKA

Abdul Rahman, H., Saari, N., Abas, F., Ismail, A., Mumtaz, M.W. and Abdul Hamid, A. (2017). Anti-obesity and antioxidant activities of selected medicinal plants and phytochemical profiling of bioactive compounds. *International Journal of Food Properties*, *20* (11): 2616-2629.

Achadiyah, S. 2017. Kajian pembuatan kopi jahe celup. *Agroteknose. Jurnal Teknologi dan Enjiniring Pertanian, 3*(2).

Adi, D.N., Khasanah, L.U. and Anandito, B.K. (2012). Produksi oleoresin berbahan baku limbah destilasi kayu manis (Cinnamomum burmannii). *Jurnal Teknologi Hasil Pertanian*, *7*(1).

Agoes, G. (2007). *Teknologi Bahan Alam. Bandung*. Penerbit ITB, Bandung.

Agustina, W., Dzakia, N.F., Cahyadi, W., Surahman, D.N. and Iwansyah, A.C. (2020). Optimasi formula dan karakterisasi produk cookies berbahan dasar pasta kacang mete (*Anacardium occidentale* L). *Jurnal Riset Teknologi Industri*, *14*(2): 176-187.

Al Mahbub, A.S. and Swasono, M.A.H. (2017). Pengaruh proporsi kayu secang (*Caesalpinia Sappan* L.) dan kayu manis (*Cinnamomum Burmanii* Bl) terhadap aktivitas antioksidan "Wedang Semanis". *Teknologi Pangan: Media Informasi dan Komunikasi Ilmiah Teknologi Pertanian*, *8*(2): 107-114.

Alara, O.R. Mudalip, S.K.A. dan Olalere, O.A. (2018). Optimization of mangiferin extracted from phaleria macrocarpa fruits using response surface methodology. *Journal of Applied Research on Medicinal and Aromatic Plants 5*(1): 82–87.

Albi, M.P., Rona, J.N., dan Mimi, N. (2015). Pengaruh konsentrasi bubur buah sirsak dengan jahe dan konsentrasi gum arab terhadap mutu fruit leather. *Jurnal Rekayasa Pangan dan Pert, 3*(2).

Amaranti, W., Inur, T. dan Aldi, B.R. (2017). Uji Kandungan saponin pada daun, tangkai daun dan biji tanaman turi (*Sesbania grandiflora*). In *Politeknik Tegal: Seminar Nasional 2nd IPTEK Terapan (SENIT)*.

Amin, M., Taihuttu, M.P., dan Lestari, U. (2019). Bioaktif alami dari minyak atsiri akar wangi terhadap pengaruh kerusakan lambung. *Jurnal Bioterdidik: Wahana Ekspresi Ilmiah*, *7*(4): 64-68.

Amriani, H. Syam, H. Wijaya, M. (2019). Pembuatan teh fungsional berbahan dasar buah mahkota dewa (*Phaleria macrocarpa*) dengan penambahan daun stevia. *Jurnal Pendidikan Teknologi Pertanian*, *5*(1): 251–261.

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Andrade, E.F.D. Leone, R.D.S. Ellendersen, L.N. Masson, M.L. (2014). Phenolic profile and antioxidant activity of extracts of leaves and flowers of yacon (*Smallanthus sonchifolius*). *Industrial Crops and Products, 62*(1): 499–506.

Anggraini, D.T., Wahyu P., dan Elly P. (2015). Penggunaan ekstrak batang kayu manis (*Cinnamomum burmannii*) terhadap kualitas minuman nata de coco. *Seminar Nasional XII Pendidikan Biologi FKIP UNS*.

Antara, N.S. and Wartini, M. (2012). Senyawa aroma dan citarasa (*aroma and flavor compounds*). *Modul Kuliah.* SEAFAST-IPB*, Bogor*.

Arablou, T., dan Aryaeian, N. (2018). The effect of ginger *(Zingiber Officinale*) as an ancient medicinal plant on improving blood lipids. *Journal of Herbal Medicine*, *12*: 11-15.

Ariefandi, N., dan Rizki, V.M. (2015). Development of cardamom (*Amomum cardamomum*) herbal coffee beverages: a study of physicochemical characteristic and consumer perception towards sensory properties. *Pelita Perkebunan a Coffee and Cocoa Research Journal*, *31*(1): 49-58.

Arwangga, A.F., Asih, I.A.R.A. and Sudiarta, I.W. (2016). Analisis kandungan kafein pada kopi di desa sesaot narmada menggunakan spektrofotometri UV-Vis. *Jurnal Kimia*, *10*(1): 110-114.

Aryanti, N., Nafiunisa, A., dan Wardhani, D.H. (2019). Conventional and ultrasound-assisted extraction of anthocyanin from red and purple roselle (*Hibiscus sabdariffa* L.) calyces and characterisation of its anthocyanin powder. *International Food Research Journal*, *26*(2).

Ashokkumar, K. Murugan, M. Dhanya, M.K. dan Warkentin, T.D. (2020). Botany, traditional uses, phytochemistry and biological activities of cardamom (*Elettaria cardamomum* (L.) Maton) – A critical review. *Journal of Ethnopharmacology, 246*(1): 1-10.

Asmara, A.P. (2017). Uji fitokimia senyawa metabolit sekunder dalam ekstrak metanol bunga turi merah (*Sesbania grandiflora* L. Pers). *Universitas Islam Negeri Ar-Raniry. Aceh*.

Azni, I.N. dan Amelia, J.R. (2018). Pembuatan minuman okra (*Abelmoschus esculentus*) dengan penambahan daun stevia dan ekstrak jahe. *Prosiding TECHNOPEX*, 138-142.

Bagchi, D. dan Nair, S. eds., 2016. *Developing New Functional Food and Nutraceutical Products*. Academic Press. USA.

Ballesteros, L.F., Ramirez, M.J., Orrego, C.E., Teixeira, J.A., dan Mussatto, S.I. (2017). Optimization of autohydrolysis conditions to extract antioxidant

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

phenolic compounds from spent coffee grounds. *Journal of Food Engineering, 199*: 1-8.

Banurea, K.R. (2018). Formulasi dan analisis preferensi konsumen terhadap kopi hijau sebagai minuman kesehatan. *Skripsi*. Institut Pertanian Bogor, Bogor.

Barcellona, C.S. Cabrera, W.M. Honore, S.M. Mercado, M.I. Sanchez, S.S. dan Genta, S.B. (2012). Safety assessment of aqueous extract from leaf *Smallanthus Sonchifolius* and its main active lactone, enhydrin. *Journal of Ethnopharmacology*, *144*(1): 362–370.

Batubara, S.C. dan Pratiwi, N.A. (2018). Pengembangan minuman berbasis teh dan rempah sebagai minuman fungsional. *Jurnal Industri Kreatif dan Kewirausahaan, 1*(2): 27-41.

Bogue, J., Collins, O., dan Troy, A.J. (2017). *Market Analysis and Concept Development of Functional Foods*. *In Developing New Functional Food and Nutraceutical Products* (29-45). Academic Press.

BPOM. (2005). *Peraturan Kepala Badan Pengawas Obat Dan Makanan Tentang Ketentuan Pokok Pengawasan Pangan Fungsional*. Badan Pengawas Obat dan Makanan, Jakarta.

BPOM. (2014). *Peraturan Kepala Badan Pengawas Obat Dan Makanan Republik Indonesia Nomor 12 Tahun 2014 Tentang Persyaratan Mutu Obat Tradisional*, Badan Pengawas Obat dan Makanan, Jakarta.

Bresciani, L., Calani, L., Bruni, R., Brighenti, F., dan Del Rio, D. (2014). Phenolic composition, caffeine content and antioxidant capacity of coffee silverskin. *Food Research International*, *61*: 196-201.

BSN. (2006). *Petunjuk Pengujian Organoleptik dan atau Sensori*. Badan Standar Nasional. Indonesia.

BSN. (2014). *Kopi instan SNI 2983 : 2014*. Badan Standarisasi Nasional, Jakarta.

Buchori, L. (2007). Pembuatan gula non karsinogenik non kalori dari daun stevia. *Reaktor*, *11*(2): 57-60.

Buckle, K.A., Edwards, R.A., Fleet, G.H., dan Wotton, M. (2010). *Ilmu Pangan*. Penerjemah Hari Purnomo dan Adiono. UI. Press. Jakarta.

Buditriami, K., Legowo, A.M. dan Nurwantoro, N. (2017). Sifat fisik, serat kasar dan sifat organoleptik mie kering substitusi tepung terigu dengan tepung suweg *(Armophopallus paeoniifolius)*. *Skripsi*, UNDIP.

BUMN. (2013). http://www.bumn.go.id/ptpn12/berita/5918 diakses 1 oktober 2019.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Buruk Sahin, Y., Aktar Demirtaş, E., dan Burnak, N. (2016). Mixture design: A review of recent applications in the food industry. *Journal of Engineering Sciences*, *22*(4).

Carbonell-Capella, J.M., Buniowska, M., Esteve, M.J. and Frígola, A. (2015). Effect of Stevia rebaudiana addition on bioaccessibility of bioactive compounds and antioxidant activity of beverages based on exotic fruits mixed with oat following simulated human digestion. *Food Chemistry*, *184*: 22-130.

Chomchalow, N. (2001). *The Utilization of Vetiver as Medicinal and Aromatic Plants with Special Reference to Thailand*. Pacific Rim Vetiver Network. Thailand, Bangkok.

Chranioti, C., Chanioti, S., dan Tzia, C. (2016). Comparison of spray, freeze and oven drying as a means of reducing bitter aftertaste of steviol glycosides (derived from *Stevia rebaudiana Bertoni* plant)–evaluation of the final products. *Food chemistry*, *190*: 1151-1158.

Coffeelabs. (2018). https://www.coffeelabs.com/blogs/coffee-labs-roasters/the-science-of-coffee-part-1-coffee-the-botanical diakses 1 oktober 2019.

Damayanti D, Sari I.P, Sulaiman T.N.S, Bestari A.N, dan Setiawan I.M. (2018) The formulation of pacing (*Costus speciosus*) extract tablet by using avicel®Ph 200 as fillerbinder and amylum as disintegration agent. *Indones J Pharm*. *29*(1): 29.

Darmajana, D.A., Wulandari, N., Kumalasari, R. dan Irwansyah, A.C. (2020). Pengaruh perbandingan tepung rebung (dendrocalamus asper) dan tepung teriguterhadap karakteristikkimia dan karakteristik sensori cookies. *Jurnal Penelitian Pascapanen Pertanian*, *16*(1): 47-55.

Darsini, D.T.P., Maheshu, V., Vishnupriya, M., Nishaa, S., dan Sasikumar, J.M., (2013). Antioxidant potential and amino acid analysis of underutilized tropical fruit Limonia acidissima L. *Free Radicals and Antioxidants*, *3*: S62-S69.

Desai, N.M., Gilbert Stanley, J., dan Murthy, P.S. (2020). Kopi hijau nanoparticles: optimisation, in vitro bioactivity and bio-release property. *Journal of microencapsulation*, *37*(1): 52-64.

Dewatisari, W.F., Rumiyanti, L., dan Rakhmawati, I. (2017). Rendemen dan Skrining Fitokimia pada Ekstrak Daun Sanseviera sp. *Jurnal Penelitian Pertanian Terapan*, *17*(3), 197-202.

Do, Q.D., Angkawijaya, A.E., Tran-Nguyen P.L., Huynh, L.H., Soetaredjo, F.E., SuryadiIsmadji, Yi, H.Ju. (2014). Effect of extraction solvent on total phenol content, total flavonoid content, and antioxidant activity of limnophila

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

aromatica. Journal of Food and Drug Analysis 22 (3): 296-302. doi:10.1016/j.jfda.2013.11.001.

Durak, A., Gawlik-Dziki, U., dan Pecio, Ł. (2014). Coffee with cinnamon–impact of phytochemicals interactions on antioxidant and anti-inflammatory in vitro activity. *Food chemistry*, *162*, 81-88.

Dziki, D., Gawlik-Dziki, U., Pecio, Ł., Różyło, R., Świeca, M., Krzykowski, A., dan Rudy, S. (2015). Ground kopi hijau beans as a functional food supplement–Preliminary study. *LWT-Food Science and Technology*, *63*(1): 691-699.

Farah, A. (2012). Coffee constituents. *Coffee: Emerging Health Effects and Disease Prevention*, Chu, Y.F. (Ed.). *1*, 22-58. John Wiley & Sons. USA.

Fatdhilah R, dan Nurul. (2014). Pengaruh jumlah maltodekstrin dan lama pengeringan terhadap sifat organoleptik sup labu kuning instan. *Jurnal Tata Boga*, *3*(3).

Febrianti, R., Susanto W.H., Nugrahini.N.I.P. (2015). Karakteristik sirup jahe nira kelapa terfermentasi delapan jam (kajian jenis dan konsentrasi jahe. *Jurnal Pangan dan Agroindustri. 3*(3): 1026-1031.

Firdausni, F., Failisnur, F. dan Diza, Y.H. (2011). Potensi pigmen cassiavera pada minuman jahe instan sebagai minuman fungsional. *Jurnal Litbang Industri*, *1*(1): 15-21.

Galanakis, C.M. (2016). *Nutraceutical and Functional Food Components*. Academic Press. London.

Gamage, R.N.N. Hasanthi, K.B. dan Kumari, K.D.K.P. (2017). A comparative study on in vitro antibacterial activity of different leaf extracts of medicinal plant *Talinum paniculatum*. *International Journal of Pharmacy & Pharmaceutical Research*, *10*(3): 143–154.

Garg, S.K. (2016). *Green Coffee Bean. In Nutraceuticals*. Academic Press.

Garrett, R., Vaz, B.G., Hovell, A.M.C., Eberlin, M.N. dan Rezende, C.M. (2012). Arabica and robusta coffees: identification of major polar compounds and quantification of blends by direct-infusion electrospray ionization–mass spectrometry. *Journal of agricultural and food chemistry*, *60*(17).

Gorji, Z., Nazary-Vannani, A., Varkaneh, H.K., Clark, C.C., Fatahi, S., Rahmani, J., dan Zhang, Y. (2019). The effect of green-coffee extract supplementation on obesity: a systematic review and dose-response meta-analysis of randomized controlled trials. *Phytomedicine*, 153018.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Gotmare S, dan Tambe E. (2018). Chemıcal kınetıcs study and evaluatıon of antıoxıdant actıvıty ın clove, cumın, cınnamon and cardamomoıls usıng DPPH radıcal. *International Journal of Recent Scientific Research, 9*(6).

Gouthamchandra, K., Sudeep, H.V., Venkatesh, B.J., dan Prasad, K.S. (2017). Chlorogenic acid complex (CGA7), standardized extract from green coffee beans exerts anticancer effects against cultured human colon cancer HCT-116 cells. *Food Science and Human Wellness*, *6*(3): 147-153.

Goyal, S.K., Samsher dan Goyal, R.K. (2010). Stevia (*Stevia rebaudiana*) a bio-sweetener: a review. *International journal of food sciences and nutrition*, *61*(1): 1-10.

Granato, D., Branco, G.F., Nazzaro, F., Cruz, A.G., dan Faria, J.A. (2010). Functional foods and nondairy probiotic food development: trends, concepts, and products. *Comprehensive Reviews in Food Science and Food Safety*, *9*(3): 292-302.

Gulcin, I., Kaya R., Goren, A.C., Akincioglu, H, Topal, M. *et al*. (2019). Anticholinergic, antidiabetic, and antioxidant activities of cinnamon (*Cinnamomum verum*) bark extracts: polyphenol contents analysis by LC-MS/MS. *International Journal of Food Properties*, *22*(1): 1511-26.

Gultom, R.P.J., dan Siagian, H.S. (2019). *Potensial Farmakologis Tanaman" Gynura" Analisis Fitokimia & Bioaktivitasnya*. Deepublish.

Habibi, A.I., Firmansyah, R.A. dan Setyawati, S.M., (2018). Skrining fitokimia ekstrak n-heksan korteks batang Salam (*Syzygium polyanthum*). *Indonesian Journal of Chemical Science*, *7*(1): 1-4.

Hajian, S. (2014). Positive effect of antioxidants on immune system. *Immunopathologia Persa*, *1*(1).

Hamdan dan Aries. (2018). *Coffee, Karena Selera Tidak Dapat Diperdebatkan.* PT AgroMedia Pustaka, Jakarta.

Handayani, H., Achmad, H., Suci, A.D., Firman, M., Mappangara, S., Ramadhany, S., Sri, R., Rini, P., dan Wulansari, D.P. (2018). Analysis of antibacterial effectiveness of red ginger extract (Zingiber officinale Var Rubrum) compared to white ginger extract (Zingiber officinale Var. Amarum) in mouth cavity bacterial Streptococcus mutans (In-vitro). *Journal of International Dental and Medical Research*, 11(2), 676-681.

Harborne, J.B. (1987). *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan*. Second Edition. Penerbit ITB, Bandung 5: 69-76.

Hayati, R., Marliah, A. dan Rosita, F. (2012). Sifat kimia dan evaluasi sensori bubuk kopi arabika. *Jurnal Floratek*, *7*(1): 66-75.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Helal, A. dan Tagliazucchi, D. (2018). Impact of in-vitro gastro-pancreatic digestion on polyphenols and cinnamaldehyde bioaccessibility and antioxidant activity in stirred cinnamon-fortified yogurt. *LWT*, *89*: 164-170.

Hidayat, I.R., Zuhrotun, A. dan Sopyan, I. (2020). Design-Expert software sebagai alat optimasi formulasi sediaan farmasi. *Majalah Farmasetika*, *6*(1): 99-120.

Ibrahim, A.M., Yunianta, Y., dan Sriherfyna, F.H. (2014). Pengaruh suhu dan lama waktu ekstraksi terhadap sifat kimia dan fisik pada pembuatan minuman sari jahe merah (Zingiber officinale var. Rubrum) dengan kombinasi penambahan madu sebagai pemanis. *Jurnal Pangan dan Agroindustri*, *3*(2).

Igho, O., Rohini, T., dan Edzard, E. (2011). The use of kopi hijau extract as a weight loss supplement: a systematic review and meta-analysis of randomised clinical trials. *Gastroenterology Research and Practice*, 31.

Indriaty, F. dan Assah, Y.F. (2015). Pengaruh penambahan gula dan sari buah terhadap kualitas minuman serbuk daging buah pala. *Jurnal Penelitian Teknologi Industri*, *7*(1): 49-61.

Jaiswal, Rakesh., Maria A Patras., Pinkie J.E., Nikolai, K. (2010). Profile and characterization of the chlorogenic acid in green robusta coffee beans by LC-MS : identification seven new classes of compounds. *J. Agric. Food Chem*. *58*(15): 8722-8737.

Jakubczyk, A., Świeca, M., Gawlik-Dziki, U., dan Dziki, D. (2018). Nutritional potential and inhibitory activity of bread fortified with kopi hijau beans against enzymes involved in metabolic syndrome pathogenesis. *LWT Journal*, *95*: 78-84.

Januariani. (2018). *Tulung Agung dalam Rasa*. Deepublish. Yogyakarta.

Jeszka-Skowron, M., Stanisz, E., dan De Peña, M.P. (2016). Relationship between antioxidant capacity, chlorogenic acids and elemental composition of green coffee. *LWT*, *73*: 243-250.

Kausar, H., Saeed, S., Ahmad, M.M., dan Salam, A. (2012). Studies on the development and storage stability of cucumber-melon functional drink. *J. Agric. Res*, *50*(2): 239-248.

Khurana, R.K., Kaur, R., Lohan, S., Singh, K.K. dan Singh, B. (2016). Mangiferin: a promising anticancer bioactive. *Pharmaceutical patent analyst*, *5*(3): 169-181.

Kim W.J, Veriansyah B, Lee Y.W, Kim J, Kim J.D (2010). Extraction of mangiferin from mahkota dewa (*Phaleria macrocarpa*) using subcritical water. *Journal of Industrial and Engineering Chemistry*, *16*(3): 425-30.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Kim, M.S. and Kim, J.Y. (2019). Cinnamon subcritical water extract attenuates intestinal inflammation and enhances intestinal tight junction in a Caco-2 and RAW264. 7 co-culture model. *Food & function*, *10*(7): 4350-4360.

Klejdus, B. dan Kováčik, J. (2016). Quantification of phenols in cinnamon: A special focus on "total phenols" and phenolic acids including DESI-Orbitrap MS detection. *Industrial Crops and Products*, *83*: 774-780.

Kristianto, N. (2018). Deskripsi Proses Inovasi Kopi Hijau Pada Kelompok Tani Rahayu IV. *Skripsi*, UNIKA Soegijapranata, Semarang.

Kua, Y.L., Gan, S., Morris, A. dan Ng, H.K. (2016). Ethyl lactate as a potential green solvent to extract hydrophilic (polar) and lipophilic (non-polar) phytonutrients simultaneously from fruit and vegetable by-products. *Sustainable Chemistry and Pharmacy*, *4*: 21-31.

Kumari, S., Sharma, L., Ajmera, P. dan Raghav, A. (2018). A diverse therapeutically useful herb cinnamon. *International Journal of Research in Social Sciences*, *8*(5): 296-307.

Kurniati, D. Arifin, H.R. Ciptaningtyas, D., dan Windarningsih, F. (2018). Teknologi budidaya dan pengolahan buah mengkudu kaya antioksidan sebagai alternatif sumber pangan fungsional. *Jurnal Pengabdian Kepada Masyarakat*, *2*(7) : 1-3.

Kusnandar, F. (2019). *Kimia Pangan Komponen Makro*. Jakarta. Bumi Aksara.

Kustyawati, M.E., Sugiharto, R., Waluyo, S., dan Erlina, E. (2019). Pemberdayaan wanita kelompok serba usaha srikandi melalui diversifikasi produk kopi bubuk herbal. *Riau Journal of Empowerment*, *2*(1): 15-20.

Kusumaningtyas, R.D., Triwibowo, B., Ramadhani, R.A., Riyadi, D.H.S. dan Istadi, I. (2019). Simplex lattice design method for the optimization of non-edible oils mixture composition as feedstock for biodiesel synthesis using reactive distillation. *Journal of Physics: Conference Series*, *1295*(1).

Lee H.G., Jo Y, Ameer K, Kwon J.H. (2018). Optimization of green extraction methods for cinnamic acid and cinnamaldehyde from cinnamon (*Cinnamomum cassia*) by response surface methodology. *Food Science and Biotechnology*, *27*(6): 1607-1617.

Lee, L.W., Cheong, M.W., Curran, P., Yu, B., dan Liu, S.Q. (2016). Modulation of coffee aroma via the fermentation of green coffee beans with rhizopus oligosporus. *Food chemistry*, *211*: 916-924.

Lestari, L.A., Lestari, P.M. dan Utami, F.A. (2018). *Kandungan Zat Gizi Makanan Khas Yogyakarta*. UGM PRESS, Yogyakarta.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Lestario, L.N., Christian, A.E. dan Martono, Y. (2009). Aktivitas antioksidan daun ginseng jawa (*Talinum paniculatum Gaertn*). *AGRITECH*, *29*(2).

Leviana, W. dan Paramita, V. (2017). Pengaruh suhu terhadap kadar air dan aktivitas air dalam bahan pada kunyit (*Curcuma longa*) dengan alat pengering electrical oven. *Metana*, *13*(2): 37-44.

Li, J., Niu, D., Zhang, Y., dan Zeng, X. (2020). Physicochemical properties, antioxidant and antiproliferative activities of polysaccharides from *Morinda Citrifolia L*. (Noni) based on different extraction methods. *International Journal of Biological Macromolecules, 150*(1): 114–121.

Li, N., Shi, C., Zhang, Z., Wang, H. dan Liu, Y. (2019). A review on mixture design methods for geopolymer concrete. *Composites Part B: Engineering*, *178*: 107490.

Liang, N. dan Kitts, D.D. (2016). Role of Chlorogenic Acids in controlling oxidative and inflammatory stress conditions. *Nutrients*, *8*(1): 16.

Luqman, S. dan Kumar, R. (2012). Correlation between scavenging property and antioxidant activity in the extracts of Emblica officinalis Gaertn., syn. Phyllanthus emblica L. Fruit. *Annals of Phytomedicine*, *1*(1): 54-61.

Macheiner, L., Schmidt, A., Schreiner, M., dan Mayer, H.K. (2019). Green coffee Infusion as a Source of caffeine and chlorogenic acid. *Journal of Food Composition and Analysis*, 103307.

Maffei, M. (2002). *Vetiveria: the genus Vetiveria*. CRC Press.USA.

Mangiwa, Septiani, Alowisya, F., dan Puteri M.A. 2015. Kadar asam klorogenat (CGA) dalam biji kopi arabika (*Coffea arabica*) asal wamena, papua. *Hydrogen: Jurnal Kependidikan Kimia, 3*(2): 313-317.

Marcinek, K. dan Krejpcio, Z. (2015). Stevia rebaudiana bertoni – chemical composition and functional properties. *Acta Sci Pol Technol Aliment*, *14*(2): 145–152.

Mardiah. F.R.Z., Prangdimurti, E. dan Damanik, R. (2015). Perubahan kandungan kimia sari rosela merah dan ungu (*Hibiscus sabdariffa* L.) hasil pengeringan menggunakan cabinet dryer dan fluidized bed dryer. *Jurnal Teknologi Industri Pertanian, 25*(1): 1-7.

Marete, E.N., Jacquier, J.C., dan O'Riordan, D. (2011). Feverfew as a source of bioactives for functional foods: storage stability in model beverages. *Journal of Functional Foods*, *3*(1): 38-43.

Maryam, S., Baits, M. dan Nadia, A. (2015). Pengukuran aktivitas antioksidan ekstrak etanol daun kelor (*Moringa oleifera* Lam.) menggunakan metode

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

FRAP (Ferric Reducing Antioxidant Power). *Jurnal Fitofarmaka Indonesia*, *2*(2): 115-118.

Masek, A., Latos-Brozio, M., Kałużna-Czaplińska, J., Rosiak, A. dan Chrzescijanska, E. (2020). Antioxidant properties of green coffee extract. *Forests*, *11*(5): 557.

Maulana, I.T. (2018). Penerapan iptek bagi masyarakat (IbM) di desa sukalaksana, samarang garut melalui pemanfaatan sumberdaya alam dalam mewujudkan berdirinya UKM center saung ciburial. *Charity*, *1*(01): 80-89.

Mechchate, H., Es-Safi, I., Haddad, H., Bekkari, H., Grafov, A. dan Bousta, D. (2020). Combination of catechin, epicatechin, and rutin: optimization of a novel complete antidiabetic formulation using a mixture design approach. *The Journal of Nutritional Biochemistry*, *88*: 108520.

Mogra, R. and Dashora, V. (2009). Exploring the use of *Stevia rebaudiana* as a sweetener in comparison with other sweeteners. *Journal of Human Ecology*, 25(2): 117-120.

Monente, C., Bravo, J., Vitas, A.I., Arbillaga, L., De Peña, M.P., dan Cid, C. (2015). Coffee and spent coffee extracts protect against cell mutagens and inhibit growth of food-borne pathogen microorganisms. *Journal of Functional Foods*, *12*: 365-374.

Montgomery D.C. (2017). *Design and Analysis of Experiments*. 9th Edition. John Wiley & Sons.

Moreira, A.S.P., Nunes, F.M., Simões, C., Maciel, E., Domingues, P., Domingues, M.R.M., dan Coimbra, M.A. (2017). Data on coffee composition and mass spectrometry analysis of mixtures of coffee related carbohydrates, phenolic compounds and peptides. *Data in Brief*, *13*: 145–161.

Mpapa, B.L. (2019). *Kopi Saluan: Local Coffee Kas Bangai*. Deepublish.Yogyakarta.

Mukhriani, Mukhriani, Faridha Y. N., dan Mumang, M. (2017). Penetapan kadar tanin total ekstrak biji jintan hitam (*Nigella sativa*) secara spektrofotometri UV-Vis. *Jurnal Farmasi, 2*(4): 154-158.

Nair, S., Nagar, R., Gupta, R. (1998). Antioxidant phenolics and flavonoids in common Indian foods. *The Journal of the Association of Physicians of India*, *46*(8): 708-710.

Nair, K.P. (2013). *The Agronomy and Economy of Turmeric and Ginger: The Invaluable Medicinal Spice Crops*. Newnes.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Naveena, B.M., Muthukumar, M., Sen, A.R., Praveen Kumar, Y., dan Kiran, M. (2014). Use of cinnamaldehyde as a potential antioxidant in ground spent hen meat. *Journal of food processing and preservation*, *38*(4): 1911-1917.

Nichmah, L. Yuwanti, S. dan Suwasono, S. (2019). Kopi kayu manis celup dengan variasi tingkat penyangraian kopi dan konsentrasi bubuk kayu manis. *Berkala Ilmiah PERTANIAN, 2*(2): 50-55.

Nikzade, V., Tehrani, M.M. dan Saadatmand-Tarzjan, M. (2012). Optimization of low-cholesterol–low-fat mayonnaise formulation: effect of using soy milk and some stabilizer by a mixture design approach. *Food Hydrocolloids*, *28*(2): 344-352.

Nuraida dan R. Dewanti-Hariyadi (2001). Formulasi minuman fungsional tradisional dari rempah-rempah menggunakan konsep optimasi sinergisme antioksidan. *Prosiding Seminar Nasional Pangan Tradisional*.

Nurmiah, S., Syarief, R., Sukarno, S., Peranginangin, R. dan Nurmata, B. (2013). Aplikasi response surface methodology pada optimalisasi kondisi proses pengolahan Alkali Treated Cottonii (ATC). *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*, *8*(1): .9-22.

Nurnasari, E., dan Khuluq, A. D. (2018). Potensi diversifikasi rosella herbal (*Hibiscus sabdariffa* L.) untuk pangan dan kesehatan. *Buletin Tanaman Tembakau, Serat & Minyak Industri*, *9*(2): 82-92.

Oboh, G., Akinyemi, A.J. dan Ademiluyi, A.O. (2012). Antioxidant and inhibitory effect of red ginger (*Zingiber officinale* var. Rubra) and white ginger (*Zingiber officinale* Roscoe) on Fe2+ induced lipid peroxidation in rat brain in vitro. *Experimental and Toxicologic Pathology*, *64*(1-2):.31-36.

Ogundele, O.M., Awolu, O.O., Badejo, A.A., Nwachukwu, I.D., dan Fagbemi, T.N. (2016). Development of functional beverages from blends of Hibiscus sabdariffa extract and selected fruit juices for optimal antioxidant properties. *Food science & nutrition*, *4*(5): 679-685.

Olszowy, M. (2019). What is responsible for antioxidant properties of polyphenolic compounds from plants?. *Plant Physiology and Biochemistry*, *144*: 135-143.

Pacifico, S., Piccolella, S., Nocera, P., Tranquillo, E., Dal Poggetto, F., dan Catauro, M. (2019). New insights into phenol and polyphenol composition of Stevia rebaudiana leaves. *Journal of pharmaceutical and biomedical analysis*, *163*: 45-57.

Pahlawan, P.P. dan Oktaria, D. (2016). Pengaruh daun insulin (*Smallanthus sonchifolius*) sebagai anti diabetik. *Majority, 5*(4): 133-137.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Palupi, N.S., Wardiani, L.I. dan Nurtama, B. (2016). Optimasi formula kuah jahe dalam pengembangan wedang tahu sebagai pangan fungsional. *Jurnal Teknologi dan Industri Pangan*, *27*(1): 95-104.

Panusa, A., Petrucci, R., Lavecchia, R. dan Zuorro, A. (2017). UHPLC-PDA-ESI-TOF/MS metabolic profiling and antioxidant capacity of arabica and robusta coffee silverskin: Antioxidants vs phytotoxins. *Food Research International*, *99*: 155-165.

Patel, J. Santos, K. Mungai, K. Arseneault, V. Pokuaa, Y.K. Louis, K.S. Patel, K. Giligan, L. Mansour, K. Patel, P. Gonzalez, K.A. (2018). *Talinum paniculatum* root exhibits synergistic antimicrobial activity with tetracycline, erythromycin, and streptomycin against s. aureus but has no observed effect on antibiotic efficacy against e. coli. *Journal of Emerging Investigators, 9*(1) : 1-4.

Permatasari, D.R.I., Purwadi dan Evanuarini, H. (2018). Kualitas kefir dengan penambahan tepung daun stevia (*Stevia Rebaudiana Bertoni*) sebagai pemanis alami. *Jurnal Ilmu dan Teknologi Hasil Ternak, 13*(2): 91-97.

Permatasari, E dan Mardiani, D. (2015). *Panduan Budidaya Stevia sebagai Penghasil Gula Rendah Kalori*. Koperasi Nukita. Bandung.

Pertiwi, A.S. (2018). Kajian konsentrasi kayu manis (*Cinnamomum burmannii*) dan dextrin terhadap karakteristik serbuk instan kopi robusta (*Coffea cannephora*). *Skripsi*. Universitas Pasundan. Bandung.

Phongpaichit, S., Nikom, J., Rungjindamai, N., Sakayaroj, J., Hutadilok-Towatana, N., Rukachaisirikul, V., dan Kirtikara, K. (2007). Biological activities of extracts from endophytic fungi isolated from Garcinia plants. *FEMS Immunology & Medical Microbiology*, *51*(3): 517-525.

Pramitasari, D., Anandhito, R.B.K. dan Fauza, G. (2011). The addition of ginger extract in making soymilk powder by spray drying method: Chemical constituents, sensory characteristic and antioxidant activity. *Biofarmasi Journal of Natural Product Biochemistry*, *9*(1): 17-25.

Prasetyaningrum, Utami R., Anandita R.B.K. (2012). Antıoxıdant actıvıty, total phenolıc content, and antıbacterıal actıvıty of cinnamon bark oıl and oleoresın (*Cinnamomum burmannii). Jurnal Teknosains Pangan*, *1*(1): 24-31.

Pratiwi, I.Y. (2011). Pengaruh variasi maltodekstrin terhadap kualitas minuman serbuk instan kayu manis (*Cinnamomum burmanii* Bl). *Skripsi*. Universitas Atma Jaya Yogyakarta. Yogyakarta.

Prieto P, Pineda M, dan Aguilar M. (1999). Spectrophotometric quantitation of antioxidant capacity through the formation of a phosphomolybdenum

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

complex: specific application to the determination of vitamin E. Analytical Biochemistry *269*(2): 337–341.

Purwadi, D., Ainuri, M., Kurniawan, M.K., dan Dermawan, A.B. (2010). komersialisasi produk stevia (*Stevia Rebaudiana*) sebagai pemanis alami rendah kalori. *Prosiding Seminar Nasional APTA*. 287-293.

Purwaningsih, S., Salamah, E., Sukarno, A.Y.P., dan Deskawati. (2013). Aktivitas antioksidan dari buah mangrove (*Rhizophora Muronata* Lamk.) pada suhu yang berbeda. *Jurnal Pengolahan Hasil Perikanan Indonesia, 16*(3): 199-206.

Purwanti, H., Mardinah dan Amalia, L. (2015). Penggunaan stevia (*Stevia Rebaudiana*) sebagai antimikroba pada produk minuman teh. *Jurnal Agroindustri Halal, 1*(2): 122- 130.

Putri, D.D., dan Nurmagustina, D.E. (2017). Kandungan total fenol dan aktivitas antibakteri kelopak buah rosela merah dan ungu sebagai kandidat feed additive alami pada broiler. *Jurnal Penelitian Pertanian Terapan*, *14*(3).

Putri, D.D.N. (2017). Pengaruh rebusan daun insulin (*smallanthus sonchifolius*) terhadap penurunan kadar glukosa darah pada tikus diabetes melitus. *Jurnal ProNers*, *3*(1): 1-13.

Rahardjo, P. (2012). *Berkebun Kopi*. Penebar Swadaya. Jakarta.

Raini, M., dan Isnawati, A. (2011). Kajian: khasiat dan keamanan stevia sebagai pemanis pengganti gula. *Media Penelitian dan Pengembangan Kesehatan*, *21*.

Ranggawati, M. Tamrin dan Asyik, N. (2018). Karakteristik organoleptik dan sifat kimia minuman fungsional liang teh daun karamunting (*Rhodomyrtus Tomentosa*) dengan penambahan kayu manis. *Jurnal Sains dan Teknologi Pangan, 3*(1): 1111-1118.

Rao, S. (2014). *The Coffee Roasters Companion*. China.

Raoof, G.F.A., Mohamed, K.Y., dan Mohammed, H.M. (2017). Phytochemical evaluation, anti-obesity and antihyperlipidemic effects of combined administration of green coffee, cinnamon and ginger. *Plant*, *5*(5): 80.

Rohmah, M. (2010). Aktivitas antioksidan campuran kopi robusta *Coffea cannephora* dengan kayu manis *Cinnamomum burmanii*. *Jurnal Teknologi Pertanian*, *6*(2): 50-54.

Rosliuk, D., Rutkaite, R., Ivanauskas, L., dan Jakstas, V. (2020). Interaction between cross-linked cationic starch micro granules and chlorogenic acid

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

isomers in artichoke and green coffee bean aqueous extracts. *Journal of Chromatography,* 1160: 122385.

Sadeghi, S. Davoodvandi, A. Pourhanifeh, M.H. Sharifi, N. Arefnezhad, R. Sahebnasagh, R. Moghadam, S.A. Sahebkar, A. dan Mirzaei, H. (2019). Anti-cancer effects of cinnamon: Insights into its apoptosis effects. *European Journal of Medicinal Chemistry, 178*(1): 131 – 140.

Saefudin, S., Basri, E. dan Sukito, A. (2018). Antioxidant activity and toxicity effect of eleven types of bark extracts acquired from euphorbiaceae. *Indonesian Journal of Forestry Research*, *5*(2): 133-146.

Saida, H.R., Nurhayati, N., Purnomo, B.H., dan Ruriani, E. (2014). Analisis kelayakan finansial produk kopi herbal instan terproduksi oleh UD. Sari Alam. *JURNAL AGROTEKNOLOGI*, *8*(02): 158-170.

Saloko, S., Handito, D. dan Apriani, N. (2020). The effect of addition papaya leaf extract (*Carica papaya* L.) on reducing caffeine levels in robusta coffee. In *IOP Conference Series: Earth and Environmental Science*, *515*(1).

Samoggia, A., & Riedel, B. 2018. Coffee Consumption and Purchasing Behavior Review: Insights for Further Research. *Appetite.* 129, 70-81.

Samosir, A.P., Runtuwene, M.R.J. dan Citraningtyas, G. (2012). Uji aktivitas antioksidan dan total flavonoid pada ekstrak etanol pinang yaki (*Areca vestiaria*). *Pharmacon*, *1*(2).

Sangsopha, J., Moongngarm, A., Johns, N.P. dan Grigg, N.P. (2019). Optimization of pasteurized milk with soymilk powder and mulberry leaf tea based on melatonin, bioactive compounds and antioxidant activity using response surface methodology. *Heliyon*, *5*(11): e02939.

Santos, R.R. Andrade, M. Madella, D. Martinazzo, A.P. Moura, L.D.A.G. Melo, N.R.D. dan Silva, A.S. (2017). Revisiting an ancient spice with medicinal purposes: Cinnamon. *Trends in Food Science & Technology*, *62*(1): 154 – 169.

Santoso, A.M. Amin, M. Sumitro, S.B. dan Lukiati, B. (2016). LC MS determination of java ginseng (*Talinum paiculatum*) ginsenoside. *Proceeding International Biology Conference*. 3-6.

Sari, C. Damayanthi, E., dan Kustiyah, L. (2018). The effect of rosella beverage intervention on lipid profiles and antropometric in obese adult men. *Indian Journal of Public Health Research & Development*, *9*(12): 644-649.

Sarria, B., Martínez-López, S., Mateos, R., dan Bravo-Clemente, L. (2016). Long-term consumption of a green/roasted coffee blend positively affects glucose

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

metabolism and insulin resistance in humans. *Food Research International*, *89*: 1023-1028.

Sarumpaet, P. (2013). Analisis nilai tambah kopi teripang jahe pra campur saset. *Jurnal Agrisep: Kajian Masalah Sosial Ekonomi Pertanian dan Agribisnis*, *12*(2): 209-216.

Sęczyk, Ł., Świeca, M., dan Gawlik-Dziki, U. (2017). Soymilk enriched with green coffee phenolics–antioxidant and nutritional properties in the light of phenolics-food matrix interactions. *Food chemistry*, *223*, 1-7

Shahidi, F. dan Zhong, Y. (2015). Measurement of antioxidant activity. *Journal of functional foods*, *18*: 757-781.

Shalan, N.A.A.M. Mustapha, N.M. dan Mohamed, S. (2016). Morinda citrifolia leaf enhanced performance by improving angiogenesis, mitochondrial biogenesis, antioxidant, anti-inflammatory & stress responses. *Food Chemistry, 212*(1): 443–452.

Shwter, A.N. Abdullah, N.I. Alshawsh, M.A. El-Seedi, H.R. Al-Henhena, N.A. Khalifa, S.A.M. dan Abdulla, M.A. (2016). Chemopreventive effect of phaleria macrocarpa on colorectal cancer aberrant crypt foci in vivo. *Journal of Ethnopharmacology*, *193*(1): 195–206.

Siburian, R. B., Jose, C., dan Kartika, G.F. (2014). Total fenolik, flavonoid, dan aktivitas antioksidan produk teh hijau dan teh hitam tanaman bangun-bangun (*coleus amboinicus*) dengan perlakuan ett rempah-rempah. *Jurnal Online Mahasiswa Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Riau*, *2*(1): 15-22.

Šilarová, P., Boulekbache-Makhlouf, L., Pellati, F. dan Česlová, L. (2019). Monitoring of chlorogenic acid and antioxidant capacity of *Solanum melongena* L. under different heat and storage treatments. *Antioxidants*, *8*(7): 234.

Souissi, M. Azelmat, J. Chaieb, K. dan Grenier, D. (2020). Antibacterial and anti-inflammatory activities of cardamom (*Elettaria cardamomum*) extracts: potential therapeutic benefits for periodontal infections. *Anaerobe*, *61*(1): 1-7.

Sudarmadji, S., B. Haryono, dan Suhardi. (2010). *Prosedur Analisa Untuk Bahan Makanan dan Pertanian*. Liberty, Yogyakarta.

Sudiyarto, S., Widayanti, S. dan Kresna, D.M. (2012). Perilaku konsumen penikmat kopi tubruk dan kopi instan. *JSEP (Journal of Social and Agricultural Economics)*, *6*(3): 1-11.

Sudjono, W. (2017). Optimization of roasting and subcritical water extraction for the development of functional beverages based on green coffee beans. *Skripsi*. UGM.

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Suharsanti, R., dan Wibowo, F.S. (2016). Uji aktivitas antijamur ekstrak etanol daun som jawa terhadap pertumbuhan *candida albicans* untuk menjamin mutu penggunaan sebagai obat herbal anti keputihan. *Media Farmasi Indonesia*, *11*(2).

Sumardjo, D. (2008). *Pengantar Kimia*. Jakarta: EGC. hal 26.

Supartono, W., Guritno, A.D., Ushada, M., dan Sukartiko, A.C. (2016). Possibility of some indigenous spices as flavor agents to enrich Indonesia flavor database. *KnE Life Sciences*, 35-39.

Surati, S., dan Saptiwi, B. (2015). Efektifitas berbagai konsentrasi rebusan akar wangi (*Vetiveria zizanoides*) terhadap daya hambat bakteri streptococcus mutans. *LINK*, *11*(3): 1083-1088.

Suryanto, E. (2007). Aktivitas antioksidan ekstrak flavonoid dari buah andaliman (Zanthoxylum acanthopodium DC) pada ikan mas *(Cyperinus carpio L)*. *Jurnal Sains*. UNSRAT, Manado.

Susilowati, D.N., Ginanjar, H., Yuniarti, E., Setyowati, M., dan Roostika, I. (2018). Karakterisasi bakteri endofit tanaman purwoceng sebagai penghasil senyawa steroid dan antipatogen/endophytic bacteria from purwoceng as steroid and antipatogenic compounds producers. *Jurnal Penelitian Tanaman Industri*, *24*(1): 1-10.

Swieca, M., Gawlik-Dziki, U., Dziki, D., dan Baraniak, B. (2017). Wheat bread enriched with kopi hijau–in vitro bioaccessibility and bioavailability of phenolics and antioxidant activity. *Food Chemistry*, *221*: 1451-1457.

Syahrul, S., Syarief, R., Hermanianto, J., dan Nurtama, B. (2017). The optimization of frying process of tumpi-tumpi from milkfish used response surface methodology. *Jurnal Pengolahan Hasil Perikanan Indonesia*, *20*(3): 432-445.

Tajik, N., Tajik, M., Mack, I. dan Enck, P. (2017). The potential effects of chlorogenic acid, the main phenolic components in coffee, on health: a comprehensive review of the literature. *European Journal of Nutrition*, *56*(7): 2215-2244.

Talha, M. (2012). Analysis of stevioside in stevia rebaudiana. *Journal of Medicinal Plants Research, 6*(1): 2216-2219.

Tarigan, E.B., Pranowo, D. dan Iflah, T. (2015). Tingkat kesukaan konsumen terhadap kopi campuran robusta dengan arabika. *Jurnal Teknologi dan Industri Pertanian Indonesia*, *7*(1): 12-17.

Taufik, Y., dan Widiantara, T. (2018). Optimalisasi formulasi minuman jelly lidah buaya (aloe vera l.) dan daun black mulberry (Morus nigra L.) menggunakan

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

design expert metode mixture d-optimal. *Pasundan Food Technology Journal (PFTJ)*, *4*(3): 176-181.

Trang, V.T.N., Trang, L.T.H., Hiep, H.P., Thuong, S.D., Thuy, V.T.T. dan Mau, C.H. (2018). Overexpression of the Glycine max Chalcone Isomerase (GmCHI) gene in transgenic *Talinum Paniculatum* plants. *Turkish Journal of Botany 42*(5): 551-558.

Tulini, F.L., Souza, V.B. Echalar-Barrientos, M.A. Thomazini, M. Pallone, E.M.J.A. dan Favaro-Trindade, C.S. (2016). Development of solid lipid microparticles loaded with a proanthocyanidinrich cinnamon extract (*Cinnamomum zeylanicum*): Potential for increasing antioxidant content in functional foods for diabetic population. *Food Research International, 85*(1): 10-18.

Tupamahu, Y.M. (2014). Analisis usaha pengolahan kopi jahe instan di ternate. *Agrikan: Jurnal Agribisnis Perikanan*, *7*(2): 68-74.

Untea, A., Lupu, A., Saracila, M. dan Panaite, T. (2018). Comparison of ABTS, DPPH, phosphomolybdenum assays for estimating antioxidant activity and phenolic compounds in five different plant extracts. *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Animal Science and Biotechnologies*, *75*(2): 110-114.

Utami, R., Khasanah, L.U., Yuniter, K.K. dan Manuhara, G.J. (2017). Pengaruh oleoresin daun kayu manis (*Cinnamomum burmanii*) dua tahap terhadap karakteristik edible film tapioka. *Caraka Tani Journal of Sustainable Agriculture*, *32*(1):.55-67.

Varastegani, B., Lubowa, M., Teixeira, J.A. dan Easa, A.M. (2019). Storage stability of spray dried Nigella sativa (*Ranunculaceae family*) instant beverage powder: effect of carrier agents on the physicochemical, phenolic compounds and antioxidant properties.

Vinson, J.A., Chen, X., dan Garver, D.D. (2019). Determination of total chlorogenic acids in commercial kopi hijau extracts. *Journal of Medicinal Food*, *22*(3): 314-320.

Wafaa, K.G., Azza, A.O., dan El-Ola, M.M.Z. (2016). Production of natural drinks sweeten with stevia. *AFS-ADVANCES IN FOOD SCIENCES*, 93.

Wahyuningrum, R., Utami, P.I., Dhiani, B.A., Kumalasari, M., dan Kusumawardani, R.S. (2016). Screening of potential free radicals scavenger and antibacterial activities of purwoceng (*Pimpinella alpina Molk*). *Tropical Life Sciences Research*, *27:* 161.

Wahyuningsih, N., Suhartatik, N., dan Mustofa, A. (2018). Aktivitas antioksidan herbs infused water dengan variasi lama perendaman dan varietas jahe

UNIVERSITAS GADJAH MADA
OPTIMASI FORMULA MINUMAN FUNGSIONAL BERBASIS EKSTRAK KOPI HIJAU, EKSTRAK SIMPLISIA TERPILIH, DAN PEMANIS STEVIA
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(*Zingiber officinale*) emprit, gajah, dan merah. *Prosiding Seminar Nasional Fakultas Pertanian, 1*(1).

Wang, X., del Mar Contreras, M., Xu, D., Jia, W., Wang, L., dan Yang, D. (2021). New insights into free and bound phenolic compounds as antioxidant cluster in tea seed oil: distribution and contribution. *LWT*, *136*(1): 1-11.

Wasia, N.H., Sudarma, I.M., Savalas, L.R.T. dan Hakim, A., (2017). Isolasi senyawa sinamaldehid dari batang kayu manis (*Cinnamomum burmanii*) dengan metode kromatografi kolom. *Jurnal Pijar Mipa*, *12*(2): 91-94.

Widodo, P. 2019. Persebaran purwoceng (*Pimpinella Pruatjan Molkenb*.) masa lalu dan masa kini. *Prosiding*, *8*(1): 14-15.

Widyaningsih, T.D., Novita, W., Nur, I.P.N. (2017). *Pangan Fungsional: Aspek Kesehatan, Evaluasi, dan Regulasi*. UB Press. Malang.

Widyotomo, S., Mulato, S., Purwadaria, H.K. dan Syarief, A.M. (2009). Decaffeination process characteristic of Robusta coffee in single column reactor using ethyl acetate solvent. *Pelita Perkebunan (a Coffee and Cocoa Research Journal)*, *25*(2).

Wijayanti, S.D., Fibrianto, K. and Reri, P.Y.D., (2016). Pengaruh perbedaan stimulus haptic terhadap persepsi kekentalan secara oral pada kopi instan panas dan dingin. *Jurnal Teknologi Pangan*, *9*(2).

Wildman, R.E. 2016. *Handbook of Nutraceuticals and Functional Foods*. CRC press.

Wongsa, P., Khampa, N., Horadee, S., Chaiwarith, J., dan Rattanapanone, N. (2019). Quality and bioactive compounds of blends of arabica and robusta spray-dried coffee. *Food chemistry*, *283*: 579-587.

Wu, H.Y. Yang, K.M. dan Chiang, P.Y. (2018). Roselle anthocyanins: antioxidant properties and stability to heat and ph. *Molecules 23*(6): 1-13.

Yamlean, P. (2020). *Buku Ajar Farmasetika*. Lakeshi. Klaten.

Yulianto, R.R. dan Widyaningsih, T.D., (2013). formulasi produk minuman herbal berbasis cincau hitam (Mesona Palustris), jahe (Zingiber Officinale), dan Kayu Manis (Cinnamomum burmanii). *Jurnal Pangan Dan Agroindustri*, *1*(1): 65-77.

Yuliawaty, S.T., dan Susanto, W.H. 2015. Effect of drying time and concentration of maltodextrin of the physical chemical and organoleptic characteristic of instant drink noni leaf (*Morinda citrifolia* L.). *Jurnal Pangan dan Agroindustri*, *3*(1): 41-52.

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Zhao, D., Xu, J. dan Xu, X. (2018). Bioactivity of fucoidan extracted from *Laminaria japonica* using a novel procedure with high yield. *Food Chemistry*, *245*: 911-918.