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DAFTAR PUSTAKA

Beek, A.V., 2008, The essential oil of patchouli, Pogostemon cablin: A review, *Flavour Fragr J*. 2018;33:6–51.

Brown, M.T., dan Wicker, L.R., 2000, *Applied Multivariate Statistics and Mathematical Modeling*, Academic Press, Santa Barbara.

Bulan, Rumondang, 2004, Esterifikasi Patchouli Alkohol Hasil Isolasi Dari Minyak Daun Nilam (Patchouli Oil), *Skripsi*, Jurusan Kimia, Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Sumatera Utara.

Baser, K.H.C., dan Buchbauer, G., 2016, *Handbook of Essential Oils*, edisi kedua, CRC Press, Boca Raton.

Bazlul, MS., dkk, 2010, Physico-chemical properties of blends of palm olein with other vegetable oils. *grasas y aceites. octubre-diciembre*, 2010; 61(4): 423-9.

Carmenza Montoya, 2014, Genetic Architecture of Palm Oil Fatty Acid Composition in Cultivated Oil Palm (Elaeis guineensis Jacq.) Compared to Its Wild Relative E. oleifera (H.B.K), *J. Pone*, 9(5): e95412.

Che Man, Y.B., Rohman, A., dan Mansor, T.S.T., 2011, Differentiation of Lard From Other Edible Fats and Oils by Means of Fourier Transform Infrared Spectroscopy and Chemometrics, *J. Am. Oil Chem. Soc*., 8(2):187-192.

Cordella, C. , dkk, 2003, Application Of Dsc As A Tool For Honey Floral Species Characterization And Adulteration Detection, *J. Therm. Anal. Cal*., 71 : 279–290

Cordella, C., dkk, 2002, Recent Developments in Food Characterization and Adulteration Detection: Technique-Oriented Perspectives, *J. Agric. Food Chem*, 50 : 1751-1764.

Cuttler, D.M., dan McClellan, M., 2001, Is Technological Change in Medicine Worth It?, *Health Affair*, September/October 2001, 11-29.

Dijkstra, A.J., Degumming revisited. Di dalam: Yuliani S, Kartika, A., Harimurti N, Sumangat D., Pemisahan Gum dari Minyak Jarak Dengan membrane mikrofiltrasi. *J. Pascapnen Pertanian*, 5(1): 1-9, 2008.

Donelin, A., Carlson L.H.C., Lopes, T.J., and Machado, R.A.F., 2009, Comparison of Extraction of Patchoili (pogestemon cablin) Essential oil with

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supercritical CO2 and by steam distillation, *J. of Supercritical Fluids*, 48, 15-20.

Dunford, N.T., 2012, *Food and Industrial Bioproducts and Bio Processing*, John Wiley and Sons, Chicester.

Dupuy, N.L. Duponchel, J.P. Huvenne, B. Sombret, P. Legrand, Classification of edible fats and oils by principal component analysis of Fourier transform infrared spectra, *Food Chem*. 57 (2) 245–251.

Ernest Guenther. D. ,1952,*The essential oils*. Vol. V, Van Nostrand Company, Inc., New York.

Field, L.., D., dkk., 2008, *Organic Structures from Spectra*, John Wiley And Sons Ltd, Chichester.

Gan Peck Yean LZD. A study on malaysia palm oil postion in the world market to 2035. *IEEJ*. Jun 2012.

International Organization for Standardization, 2002, *Oil of patchouli [Pogostemon cablin(Blanco) Benth.]*, ISO 3757, International Organization for Standardization, Switzerland.

Istafory, Rahma dan Mitarlis, 2005, Peningkatan Kadar Patchouli alcohol pada minyka nilam (POgestemon Cablin Benth) dengan metode distilasi fraksinasi vakum, *Berk PEnel Hayati*, 10, 123-127.

Ketaren, S. 2008. *Minyak dan Lemak Pangan. Cetakan Pertama*. Jakarta: Universitas Indonesia Press.

Koushki, M., Masoomeh, N., Fatemeh, C., 2015, Physico-chemical properties, fatty acid profile and nutrition in palm oil, *JPS*, Vol.6, No.3 ISSN 2008-4978.

Kowalski, B., 1989, Sub-ambient differential scanning calorimetry of lard and lard contaminated by tallow, *Int. J. Food Sci*. Technol., 42: 415-420.

Kumar, N., Bansal, A.G., Sarma, R.K., 2014, Chemometrics tools used in analytical chemistry: An overview, *J. Talanta*, 186–199.

Lutony TL, Rahmayati Y, 1994. *Produksi dan Perdagangan Minyak Atsiri.* Penebar Swadaya, Jakarta.

Mangun, H.M.S. (2009). *Nilam*. Penebar Swadaya, Jakarta.

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Miller, J.N. dan Miller, J.C., 2005, *Statistics and Chemometrics for Analytical Chemistry, Pearson Education*, Essex.

Mohammad R. Sarmidi MR, Hesham A. El Enshasy, H. and Mariani Abdul Hamid. Oil Palm: The Rich Mine for Pharma, Food, Feed and Fuel Industries. *American-Eurasian J Agric & Environ Sci*. 2009;5(6):767-76.

Omohu, O.J., dan Omale, A.C., 2017, Pshycochemicsl Properties and Fatty Acid Composition of Castor Bean Ricinius Communis L. Seed Oil, *European J. of Biophysics*, 5(4): 62-65.

Patel, et al., 2016, Castor Oil: Properties, Uses, and Optimization of Processing Parameters in Commercial Production, *Lipid Insight*, 9: 1-12.

Pavia, D.L. dkk, 2001, *Introduction to Spectroscopy*, edisi keempat, Thompson Learning, Washington.

Rahmati, Hashem, dkk, 2015, Antimicrobial Activity of Castor Oil Plant (Ricius Communis) Seed Extract Against Garm Positive Bacteria, Gram Negative Bacteria and Yeast, *Int. J. Mol. Med. Adv. Sci*., 11 (1): 9-12.

Rencher, A.C., 2002, *Methods of Multivariate Analysis*, edisi kedua, John Wiley & Sons, Inc, New York.

Rohman A. dan Che Man Y. B., 2011, The use of Fourier transform mid infrared (FT-MIR) spectroscopy for detection and quantification of adulteration in virgin coconut oil, *Food Chem*., 129(2): 583-588.

Rohman A. dan Che Man Y. B., 2012, The chemometrics approach applied to FTIR spectral data for analysis of rice bran oil in extra virgin olive oil, *Chemometrics and Intelligent Laboratory Systems*. 110:129–134.

Rohman, A., Che Man Y. B. dan Sismindari, 2009, Quantitative analysis of virgin coconut oil (VCO) in cream cosmetics preparation using Forier Transform Infrared (FTIR) spectroscopy, *Pak. J. Pharm. Sci.*, 22(4):415-420.

Rohman, A., Che Man, Y. B. dan Riyanto, S., 2011, Authentication Analysis of Red Fruit (Pandanusconoideus Lam.) oil using FTIR spectroscopy in combination with chemometrics, *Phytochem. Anal*., 22(5): 462 - 467.

Rohman, Abdul, 2014, *Spektroskopi Vibrasional Teori dan Plikasinya untuk analisis Farmas*i, Gadjah Mada University Press, Yogyakarta.

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Rukmana, rahmat, 2004, *Nilam Prospek agribisnis dan Teknik budidaya,* percetakan kanisius, Yogyakarta.

Shi, Ting, dkk, 2017, Near-infrared modelling with temperature compensation based on multilevel principal component regression, *Elsevier B.V.*, (92) 302–307.

Silverstein, R. M. dan Webster, F. X., 1998, *Spectrometric Identification of Organic Compounds*, Seventh Edition, hal 77, John Wiley & Sons, New York.

Sivakesava, S., & Irudayaraj, J. (2001a). A rapid spectroscopic technique for determining honey adulteration with corn syrup. *J. of Food Science*, 66, 787–792.

Stuart, B., 2004, *Infrared Spectroscopy: Fundamentals and Applications*, John Wiley and Son Ltd., United Kingdom.

Trifilieff, E., 1980, Isolation of the postulated precursor of nor-patchoulenol in patchouli Leaves, *Phytochemistry*, 19, 2464.

Verma, Ram, 2012, Assessment of similarities and dissimilarities in the essential oils of patchouli and Indian Valerian, *J. of Essential Oil Research*, 24(5) : 487-491.

Vlachos, N., Skopelitis, Y., Psaroudaki, M., Konstantinidou, V., Chatzilazarou, A. dan Tegou, E., 2006., Applications of Fourier transform-infrared spectroscopy to edible oils, *Anal. Chim. Acta*, 573–574, 459–465.

Watson, D.G., 1999, *Pharmaceutical Analysis A textbook for Pharmacy Students and Pharmaceutical Chemists*, Churchill Livingstone, Edinburgh.